

# User's Manual

# NetDA Manager

## Important

Please read this User's Manual carefully to familiarize yourself with safe and effective usage.

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- The latest User's Manual is available for download from our web site:  
<http://www.eizo.com>

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# Cautions for use

- If the resolution is frequently changed on the monitor, you may lose capability to change it again for a rare occasion. In such a case, please restart your PC.
- Depending on the software you are using, the screen image may not properly be shared with a display. In such a case, please restart the software.
- When an audio device is unlinked from your PC using NetDA Manager, a noise may be heard from the audio device. You can turn down the volume on the audio device before unlinking from it to make the noise lower.
- Software that requires the 3D hardware acceleration are not supported.
- The monitor may not work properly depending on the combination of graphics boards on your PC (including the on-board graphic function).
- The monitor may not work properly when used with the resident software such as the utilities that come with the graphics board.
- Max frame rate for video output is dependent on CPU on your PC and the network bandwidth.
- The more monitors are linked, the higher performance is required to CPU and network bandwidth.
- If a USB device requiring a large network bandwidth is used with the monitor, the frame rate may drop in the monitor.
- Only USB Web camera with a Full-Speed transfer mode can be connected and used with the monitor. It is impossible to use Hi-Speed USB camera.
- USB Web camera cannot be used with a line output connector (for speaker) or microphone input connector at the same time.

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# About NetDA Manager

NetDA Manager is a special software application which allows our network-compatible LCD monitor to be linked to your PC via a network.

NetDA Manager is used for the following purposes.

- Configuring the network settings of the monitor
- Searching for the monitor on a network
- Linking/Unlinking the monitor or the USB devices connected to the monitor to/from your PC collectively

# Chapter 1 Installing the Software

## 1-1. System Requirements

NetDA Manager operates under the system shown below.

OS	<ul style="list-style-type: none"><li>• Microsoft Windows 7 (32 bit / 64 bit)</li><li>• Microsoft Windows Vista (32 bit / 64 bit)</li><li>• Microsoft Windows XP (32 bit)</li></ul>
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## 1-2. Installing the Software

### Attention

- A user account with the “Administrator” authority is required. Please consult your system administrator for your account.

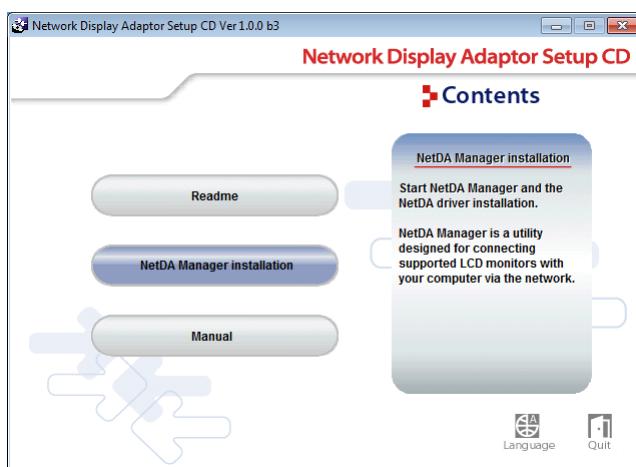
### 1. Insert the “EIZO LCD Utility Disk” CD-ROM into the CD-ROM drive.

The startup menu is displayed.

Click “NetDA Manager” in the “Network Display Adaptor” tab.

Clicking “Install” displays the menu.

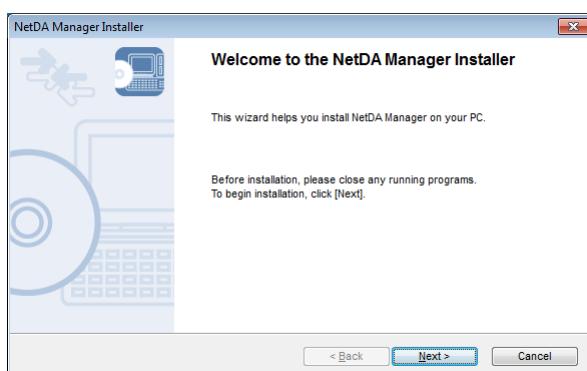
Clicking “NetDA Manager installation” starts the installer.



### Attention

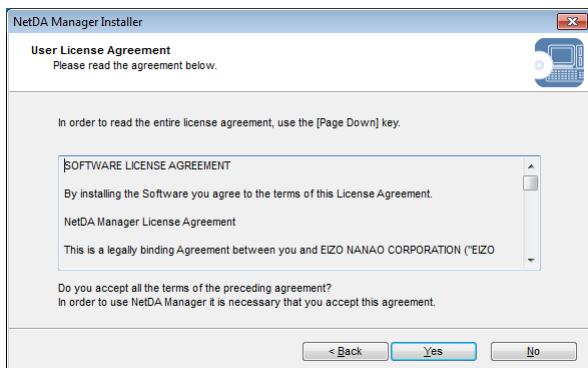
- Depending on the operating system in use, the “User Account Control” dialog box may be displayed. Click “Yes”/“Allow” to open the menu.

### 2. Click “Next”.



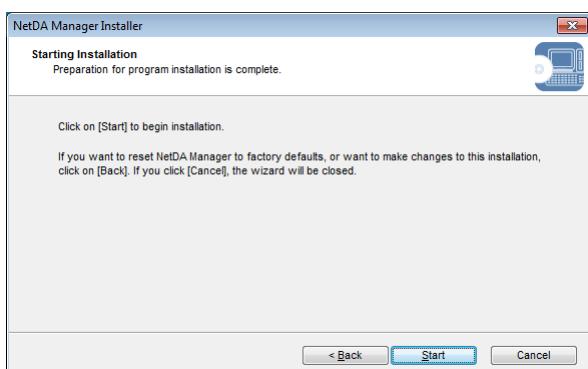
### 3. Confirm the software license agreement

Read the software license agreement. When you accept all the terms of the preceding agreement, click “Yes”.



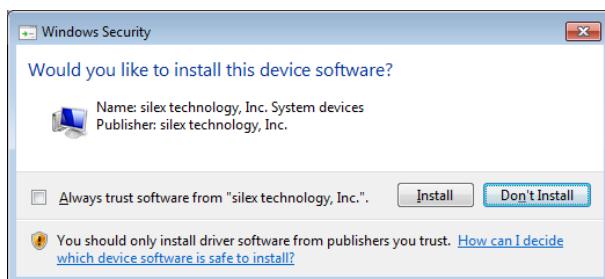
### 4. Start installation.

Click “Start”.



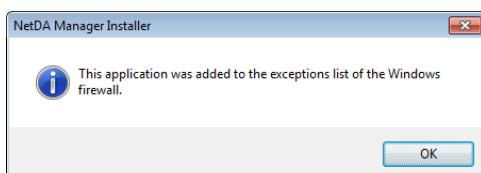
#### Attention

- In Windows Vista/Windows 7, the message below is displayed. Click “Install”.



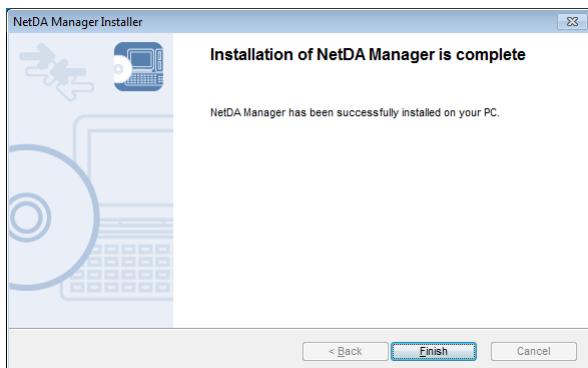
### 5. The completion dialog box for Windows firewall registration is displayed.

Click “OK”.



## 6. Complete the NetDA Manager installation.

Click “Finish”.



### Attention

- If using a firewall function of commercial security software, please add “NetDA Manager” to the exception list in the security software.

## 7. Continue to install the Display Driver.

Display Driver installer is displayed.

### Attention

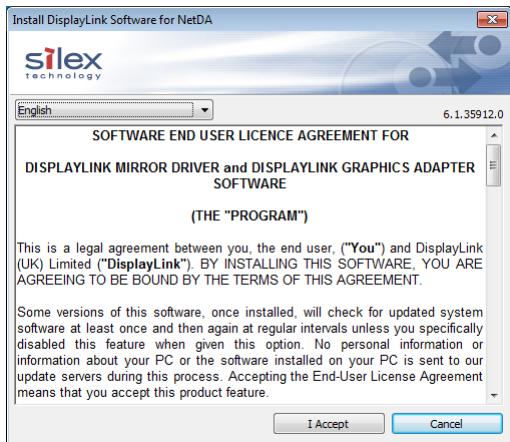
- Display Driver is required to control the monitor display.
- When Display Driver is installed, the configuration utility bundled with Display Driver is installed simultaneously. Once your PC is linked to the monitor, the icon (  ) for this configuration utility will appear in the task tray, giving you easy access to the display image and resolution settings.
- If Display Driver is installed on Windows 7, the WDDM (Windows Display Driver Model) driver is required to function with a graphics board installed in your PC. If the XPDM driver is used, Display Driver does not work.
- If Display Driver is installed on Windows Vista/Windows 7, Windows Aero cannot be used.
- Depending on the operating system in use, the “User Account Control” dialog box may be displayed. Click “Yes”/“Allow” to open the menu.

### Note

- If you are using Windows Vista/Windows 7, the “User Account Control” dialog box is not active, click  on the taskbar and then follow the messages displayed in the window.

## 8. Confirm the software license agreement

Read the software license agreement. When you accept all the terms of the preceding agreement, click “I Accept”.



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### Note

- Depending on the operating system, your PC may need to be restarted. If a message appears saying that you need to restart your PC, click “Yes” to restart your PC.

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## 9. Complete the installation.

NetDA Manager starts up and the icon (  ) appears in the task tray.

## 1-3. Uninstalling the Software

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### ● NetDA Manager

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**Attention**

- A user account with the “Administrator” authority is required. Please consult your system administrator for your account.

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#### 1. Click “Control Panel” - “Uninstall a program”.

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**Note**

- In Windows XP, double-click “Add or Remove Programs”.

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#### 2. Select “NetDA Manager” from the list and click “Uninstall”.

---

**Attention**

- Depending on the operating system in use, the “User Account Control” dialog box may be displayed. Click “Yes”/“Allow” to open the menu.

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**Note**

- In Windows XP, double-click “Delete”.

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#### 3. A confirmation message is displayed.

Click “Yes”.

#### 4. Complete the uninstallation.

Click “Finish”.

## ● Display Driver

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### Attention

- A user account with the “Administrator” authority is required. Please consult your system administrator for your account.
- Before you begin, close all applications running on your PC. Your PC will need to be restarted after Display Driver is uninstalled.

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## 1. Click “Control Panel” - “Uninstall a program”.

---

### Note

- In Windows XP, double-click “Add or Remove Programs”.

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## 2. Select “NetDA” from the list and click “Uninstall”.

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### Note

- In Windows XP, double-click “Delete”.

---

## 3. A confirmation message is displayed.

Click “Yes”.

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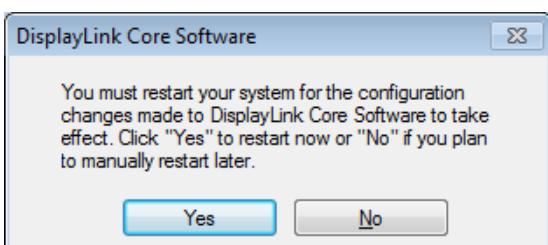
### Attention

- Depending on the operating system in use, the “User Account Control” dialog box may be displayed. Click “Yes”/“Allow” to open the menu.

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## 4. When the uninstallation is finished, the dialog box below is displayed.

Click “Yes” to restart the PC.



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### Note

- After your PC is restarted, the configuration utility will also be removed automatically from your PC.

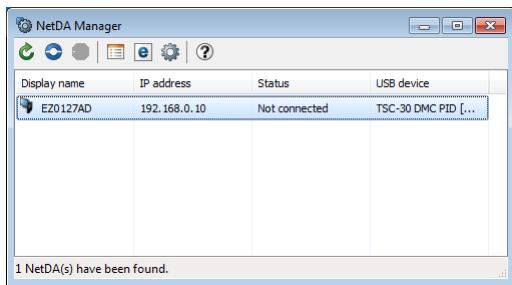
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# Chapter 2 Basic Operations of NetDA Manager

## 2-1. Startup

### 1. Click “Start” - “All Programs” - “NetDA Manager” - “NetDA Manager”.

The NetDA Manager starts, the main window appears, and the monitors running on the network are then displayed.

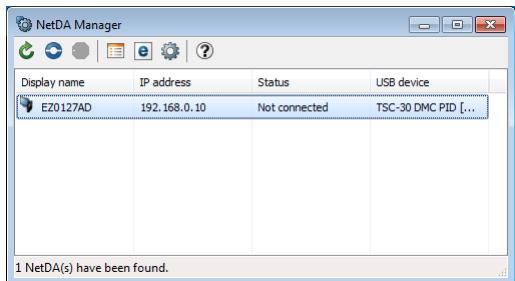


#### Note

- NetDA Manager starts up and the icon ( ) is displayed in the task tray.
- When the main window is minimized, only icon ( ) is displayed in the task tray. To display the main window again, click the icon ( ).
- When there is the monitor not displayed in the list, click “Refresh” ( ). If this does not help, refer to “[2. The monitor does not show up in the NetDA Manager’s main window.](#)” (page 54).
- To exit NetDA Manager, click “Close” ( ) at the top right corner of the main window.

## 2-2. Setting Window

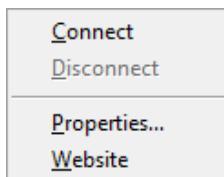
### ● Main window



Refresh	Refreshes the status of all devices in the main window.
Connect	Links the PC and monitor you have selected in the main window.
Disconnect	Unlinks the PC and monitor you have selected in the main window.
Properties	Displays the properties window of the monitor you have selected. For details on the properties window, refer to " <a href="#">"2-3. NetDA Manager Settings" (page 15)</a> .
Web page launch	Displays the Web page of the monitor you have selected. The Web page allows you to configure the network and other functions of the monitor you have selected. (For the configuration items, refer to " <a href="#">"Chapter 6 List of All Settings" (page 42)</a> .)  * Before configuring the settings from the Web page, user name and password are required. When the input window is displayed, enter the user name (root) and password, and then click "OK". (No password is set by factory default.)
Option	Displays the NetDA Manager optional settings window. For details on the optional settings, refer to " <a href="#">"2-3. NetDA Manager Settings" (page 15)</a> .
Help	Displays the version information of NetDA Manager.

## ● Right-click menu

When the monitor is right-clicked on the main window, the following menu is displayed.



Connect	Links the PC and selected monitor.
Disconnect	Unlinks the PC and selected monitor.
Properties...	Displays the properties window of the monitor you have selected. For details on the properties window, refer to " <a href="#">“2-3. NetDA Manager Settings” (page 15)</a> ".
Website	Displays the Web page of the monitor you have selected. The Web page allows you to configure the network and other functions of the monitor you have selected. (For the configuration items, refer to " <a href="#">“Chapter 6 List of All Settings” (page 42)</a> ."  * Before configuring the settings from the Web page, user name and password are required. When the input window is displayed, enter the user name (root) and password, and then click “OK”. (No password is set by factory default.)

## 2-3. NetDA Manager Settings

### ● Options dialog box

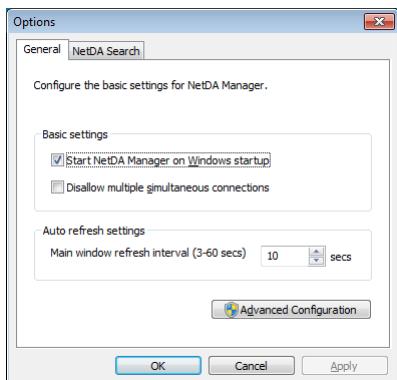
In the options dialog box, general options for NetDA Manager such as startup and communication conditions can be set.

#### 1. Click “Option” ( ) in the main window.

The Options dialog box is displayed.

#### ● General

Basic operational settings can be configured.



Start NetDA Manager on Windows startup	Adds NetDA Manager to the Startup folder. When added to the Startup folder, NetDA Manager will automatically start at Windows logon. (Default: On)
Disallow multiple simultaneous connections	Disables linking to two or more monitors at the same time. Unselect this check box if you wish to link to two or more monitors at a time. (Default: On)
Main window refresh interval	Sets the main window refresh interval. (Default: 10 sec.)
Advanced Configuration	Opens the “Advanced Configuration” dialog box.  * Depending on the operating system in use, the “User Account Control” dialog box may be displayed. Click “Yes”/“Continue”.

## **Advanced Configuration**

In this dialog box, the simultaneous linking with two or more monitors can be set

Restrict input device usage to a single NetDA <sup>*1</sup>	Disallows the usage of USB devices (keyboard, mouse) via monitors at the same time. If this function is enabled, your PC screen can only be controlled via a single monitor, even if two or more monitors are linked. When the current input device has been idle for the period of time specified in “Idle time before unblocking other input devices” below, an input device connected to another monitor can then be used. (Note that only a single monitor can be in control.) (Default: Off)
Idle time before unblocking other input devices	Sets the amount of time for which a USB device must remain idle before a USB device connected to another monitor can be used. (Default: 30 sec.)
Fix display position when in extended desktop mode	Fixes the display position when showing different images on two or more monitors (in extended desktop mode). When this option is checked; even when the monitor is turned off, the desktop does not extend to other monitors. (When this option is unchecked; when the monitor is turned off, the desktop extends automatically to other monitors which are attached and turned on.) (Default: Off)  * To apply this setting, it is necessary to restart your PC.

\*1 For FDX1502N/FDX1502NT, it indicates “Monitor (LAN)”.

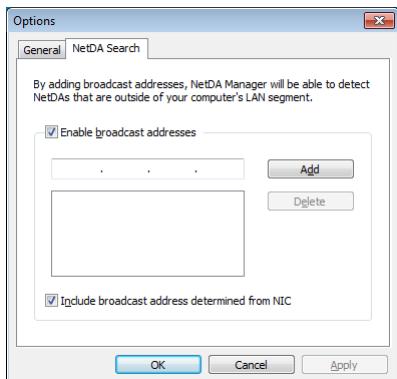
### **Note**

- To take control of the screen, press “Left Ctrl” + “Left Shift” + “Space” at the same time on the USB keyboard connected to the monitor. However, if another monitor is currently in control, this will not work until it has been idle for the specified period of time.
- To release control of the screen, press “Left Ctrl” + “Left Shift” + “Left Alt” at the same time on the USB keyboard connected to the monitor.

## ● NetDA<sup>\*1</sup> Search

\*1 For FDX1502N/FDX1502NT, it indicates “Monitor (LAN)”.

The broadcast address can be configured.



Enable broadcast addresses	Enables the usage of broadcast addresses to search for the monitors on different network segments. If no broadcast addresses are specified, only the monitors on your local segment will be searched. To register a broadcast address, check “Enable broadcast addresses”, enter the broadcast address into the address field, and click “Add”. To remove an address from the list, select the address and click “Delete”.  * For example, to register “192.168.1.xxx” (Subnet Mask:255.255.255.0), enter “192.168.1.255” into the address field. For broadcast addresses of the network to be searched for, ask your network administrator and then enter the relevant address.
Add	Adds the broadcast addresses. Enter the broadcast address to the address field and click “Add”. (Up to 16 addresses)
Delete	Deletes the broadcast addresses previously added. Select the broadcast address to delete from the list and click “Delete”.
Include broadcast address determined from NIC	Automatically determines the broadcast address for each NIC when two or more network interface cards are installed on the PC. (Default: On)

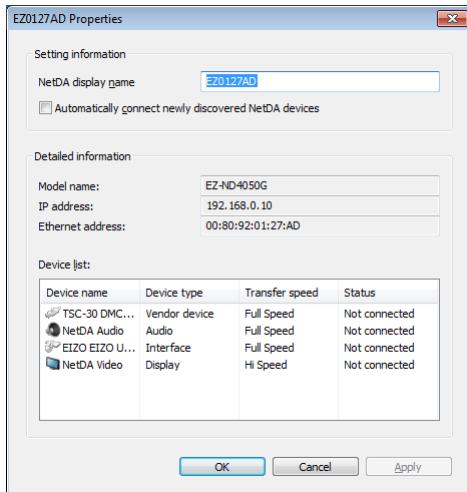
## 2. When the setup is complete, click “OK”.

## ● Properties dialog box

In the properties dialog box, the name of the selected monitor can be changed, and the detailed information of the monitor can be browsed.

### 1. Select the monitor on the main window and then click “Properties” ( ).

The properties dialog box is displayed.



NetDA* <sup>1</sup> display name	Sets the monitor name to be displayed in the NetDA Manager's main window. (Default: EZxxxxxx (xxxxxx is the last 6 digits of the Ethernet Address))
Automatically link newly discovered NetDA* <sup>1</sup> devices	Automatically links to the monitor with this setting enabled. (Default: Off)
Detailed information	Displays the model name, IP address, and Ethernet address of the selected monitor.
Device list	Displays the general information of the USB devices connected to the monitor you selected.

\*1 For FDX1502N/FDX1502NT, it indicates “Monitor (LAN)”.

### 2. When the setup is complete, click “OK”.

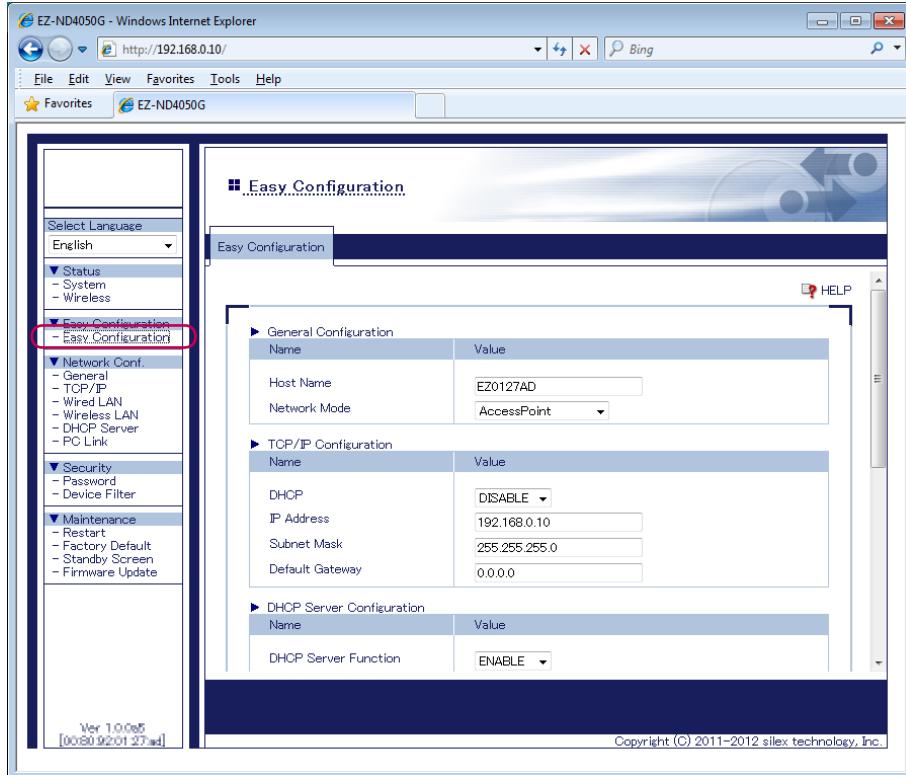
# Chapter 3 Network Configuration

This chapter explains how to configure the monitor to share a PC screen with one monitor.

**1. Select the monitor in the NetDA Manager's main window.**

**2. Click "Web page launch" (  ).**

**3. From the menu on the left, click "Easy Configuration".**



## 4. Log in to the monitor.

Enter the user name (root) and password and then click “OK”.

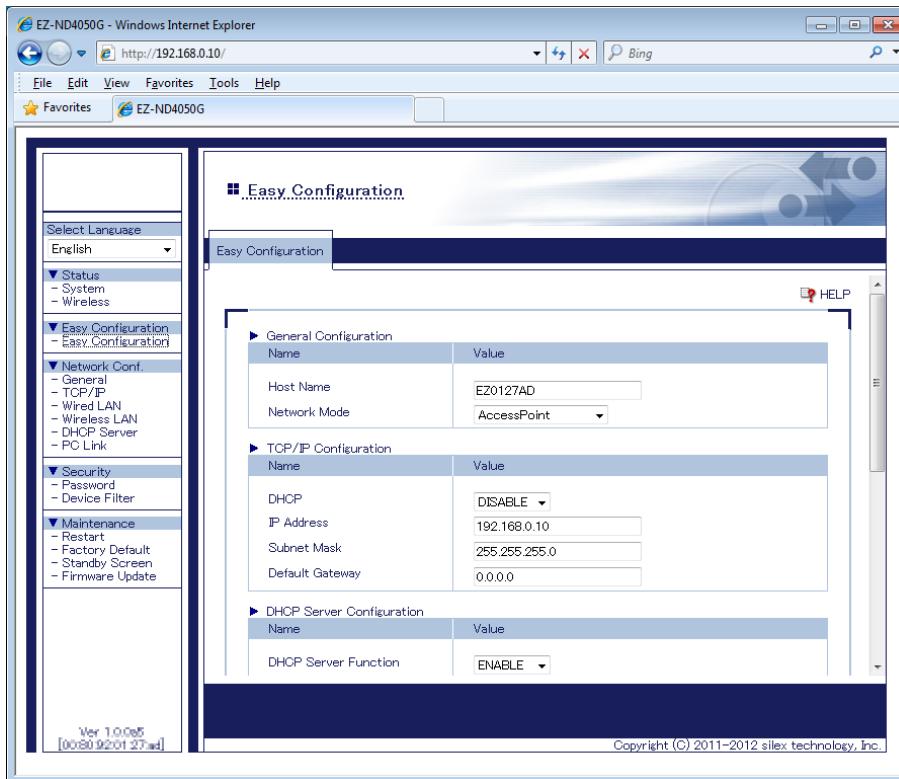


### Note

- No password is set by factory default.

## 5. Configure the following settings depending on the network connection methods.

- “To make a link to the wireless LAN using the Access Point mode of the monitor” (page 21)
- “To make a link using an existing wireless LAN” (page 23)
- “To make a link using a wired LAN” (page 25)



### Note

- For details on each setting, additionally refer to “Chapter 6 List of All Settings” (page 42).

● To make a link to the wireless LAN using the Access Point mode of the monitor

Configuration	Name	Details
General Configuration	Network Mode	Select "AccessPoint".
TCP/IP Configuration	DHCP	<p>Select "ENABLE" when you wish to obtain an IP address automatically from the DHCP server running on the network to which the monitor will be connected.</p> <p>Select "DISABLE" when there is no DHCP server running on the network to which the monitor will be connected or when you wish to assign the IP address manually.</p> <p>* To assign an IP address using the DHCP, the DHCP server must be running in your subnetwork.</p>
	IP Address	If "DISABLE" is selected for "DHCP" above, set the IP address for the monitor.
	Subnet Mask	Set the subnet mask of the monitor.
	Default Gateway	Set the gateway address of the monitor.
DHCP Server Configuration	DHCP Server Function	<p>Select "DISABLE" when there is a DHCP server running on the network to which the monitor will be connected.</p> <p>Select "ENABLE" when there is no DHCP server running on the network to which the monitor will be connected and you wish to assign an IP Address to the PC using the DHCP server function of the monitor.</p>
	Start IP Address	If "ENABLE" is selected for "DHCP Server Function" above, set the scope of IP address to be configured for the PC.
	End IP Address	
	Subnet Mask	Set the subnet mask.
	Default Gateway	Set the gateway address.
Wireless LAN Basic Configuration	SSID	<p>Set the SSID for the wireless LAN to which the monitor will be linked.</p> <p>SSID is an ID that distinguishes a wireless LAN from others. For wireless devices to communicate with each other on a wireless LAN the same SSID must be set.</p>
	Network Authentication	Select the network authentication mode that will be used to link to your wireless router (Access Point). To ensure a secure network, it is recommended to use WPA/WPA2. For IEEE 802.11n, only AES can be used.

<b>Configuration</b>	<b>Name</b>	<b>Details</b>
WEP Configuration (When "Network Authentication" is "Open" or "Shared".)	WEP	Enable/Disable the WEP encryption (ON/OFF).
	Key Index	Select the number of the WEP key that you wish to use for encryption (1 - 4).  * This setting must be the same as that of your wireless router or other devices you wish to connect to.
WPA/WPA2 Configuration (When "Network Authentication" is "WPA", "WPA2", or "WPAMIX".)	WEP Key 1 - 4	Set the WEP key for WEP encryption. When the key input method is hexadecimal, enter a 10-digit value if the key size is 64bit or a 26-digit value if the key size is 128bit. When the key input method is alphanumeric characters, enter 5 characters if the key size is 64bit or 13 characters if the key size is 128bit.  * This setting must be the same as that of your wireless router or other devices you wish to connect to.
	Encryption Mode	Select the encryption mode that you wish to use for WPA/WPA2/WPA MIX authentication. When the network authentication mode is "WPA2", "TKIP" cannot be used.  * This setting must be the same as that of your wireless router or other devices you wish to connect to.
PC Link Configuration	Pre-Shared Key	Set the Pre-Shared Key. This setting is necessary when TKIP/AES is used for encryption mode. The Pre-Shared Key is a keyword used to create the encryption key. It is also referred to as "network key" or "password". For 8 - 63 characters, enter alphanumeric characters. For 64 characters, enter hexadecimal value.  * This setting must be the same as that of your wireless router or other devices you wish to connect to.
	PC1	Enter either the host name or IP address of the PC that you wish to link to. If a USB keyboard is connected to the monitor, the PC registered as PC 1 will correspond to the "F1" key on the keyboard. The PC can be linked by pressing the "Ctrl" + "Shift" + "F1" keys.  * To use a keyboard to link a PC, the following conditions must be met. <ul style="list-style-type: none"><li>• The PC that you wish to link to is not in sleep mode.</li><li>• NetDA Manager is running on the PC that you wish to link to.</li></ul> * If this setting is configured, only the registered PC will be linked. To allow links from other PCs, refer to " <a href="#">5-3. Filtering PCs Whose Screens Are Shared</a> " ( <a href="#">page 36</a> ).

**Attention**

- To link to wireless LAN from your PC using the Access Point function of the monitor, change the wireless LAN configuration of the PC after the network configuration is complete. For details, refer to "[Changing the wireless LAN configuration of your PC](#)" ([page 27](#)).

● To make a link using an existing wireless LAN

Configuration	Name	Details
General Configuration	Network Mode	Select “Wireless only (STA)”.
TCP/IP Configuration	DHCP	Select “ENABLE” when you wish to obtain an IP address automatically from the DHCP server running on the network to which the monitor will be connected.  Select “DISABLE” when there is no DHCP server running on the network to which the monitor will be connected or when you wish to assign the IP address manually.  * To assign an IP address using the DHCP, the DHCP server must be running in your subnetwork.
	IP Address	If “DISABLE” is selected for “DHCP” above, set the IP address for the monitor.
	Subnet Mask	Set the subnet mask of the monitor.
	Default Gateway	Set the gateway address of the monitor.
DHCP Server Configuration	DHCP Server Function	Select “DISABLE” when there is a DHCP server running on the network to which the monitor will be connected.  Select “ENABLE” when there is no DHCP server running on the network to which the monitor will be connected and you wish to assign an IP Address to the PC using the DHCP server function of the monitor.
	Start IP Address	If “ENABLE” is selected for “DHCP Server Function” above, set the scope of IP address to be configured for the PC.
	End IP Address	
	Subnet Mask	Set the subnet mask.
	Default Gateway	Set the gateway address.
Wireless LAN Basic Configuration	SSID	Set the SSID for the wireless LAN to which the monitor will be linked.  SSID is an ID that distinguishes a wireless LAN from others. For wireless devices to communicate with each other on a wireless LAN the same SSID must be set.
	Network Authentication	Select the network authentication mode that will be used to link to your wireless router (Access Point). To ensure a secure network, it is recommended to use WPA/WPA2. For IEEE 802.11n, only AES can be used.

<b>Configuration</b>	<b>Name</b>	<b>Details</b>
WEP Configuration (When "Network Authentication" is "Open" or "Shared".)	WEP	Enable/Disable the WEP encryption (ON/OFF).
	Key Index	Select the number of the WEP key that you wish to use for encryption (1 - 4). <p>* This setting must be the same as that of your wireless router or other devices you wish to connect to.</p>
WPA/WPA2 Configuration (When "Network Authentication" is "WPA", "WPA2", or "WPAMIX".)	WEP Key 1 - 4	Set the WEP key for WEP encryption. When the key input method is hexadecimal, enter a 10-digit value if the key size is 64bit or a 26-digit value if the key size is 128bit. When the key input method is alphanumeric characters, enter 5 characters if the key size is 64bit or 13 characters if the key size is 128bit. <p>* This setting must be the same as that of your wireless router or other devices you wish to connect to.</p>
	Encryption Mode	Select the encryption mode that you wish to use for WPA/WPA2/WPA MIX authentication. When the network authentication mode is "WPA2", "TKIP" cannot be used. <p>* This setting must be the same as that of your wireless router or other devices you wish to connect to.</p>
PC Link Configuration	Pre-Shared Key	Set the Pre-Shared Key. This setting is necessary when TKIP/AES is used for encryption mode. The Pre-Shared Key is a keyword used to create the encryption key. It is also referred to as "network key" or "password". For 8 - 63 characters, enter alphanumeric characters. For 64 characters, enter hexadecimal value. <p>* This setting must be the same as that of your wireless router or other devices you wish to connect to.</p>
	PC1	Enter either the host name or IP address of the PC that you wish to link to. If a USB keyboard is connected to the monitor, the PC registered as PC 1 will correspond to the "F1" key on the keyboard. The PC can be linked by pressing the "Ctrl" + "Shift" + "F1" keys. <p>* To use a keyboard to link a PC, the following conditions must be met. <ul style="list-style-type: none"> <li>The PC that you wish to link to is not in sleep mode.</li> <li>NetDA Manager is running on the PC that you wish to link to.</li> </ul> * If this setting is configured, only the registered PC will be linked. To allow links from other PCs, refer to "<a href="#">5-3. Filtering PCs Whose Screens Are Shared</a>" (<a href="#">page 36</a>).</p>

● To make a link using a wired LAN

Configuration	Name	Details
General Configuration	Network Mode	Select “Wired only”.
TCP/IP Configuration	DHCP	<p>Select “ENABLE” when you wish to obtain an IP address automatically from the DHCP server running on the network to which the monitor will be connected.</p> <p>Select “DISABLE” when there is no DHCP server running on the network to which the monitor will be connected or when you wish to assign the IP address manually.</p> <p>* To assign an IP address using the DHCP, the DHCP server must be running in your subnetwork.</p>
	IP Address	If “DISABLE” is selected for “DHCP” above, set the IP address for the monitor.
	Subnet Mask	Set the subnet mask of the monitor.
	Default Gateway	Set the gateway address of the monitor.
DHCP Server Configuration	DHCP Server Function	<p>Select “DISABLE” when there is a DHCP server running on the network to which the monitor will be connected.</p> <p>Select “ENABLE” when there is no DHCP server running on the network to which the monitor will be connected and you wish to assign an IP Address to the PC using the DHCP server function of the monitor.</p>
	Start IP Address	If “ENABLE” is selected for “DHCP Server Function” above, set the scope of IP address to be configured for the PC.
	End IP Address	
	Subnet Mask	Set the subnet mask.
	Default Gateway	Set the gateway address.
PC Link Configuration	PC1	<p>Enter either the host name or IP address of the PC that you wish to link to.</p> <p>If a USB keyboard is connected to the monitor, the PC registered as PC 1 will correspond to the “F1” key on the keyboard. The PC can be linked by pressing the “Ctrl” + “Shift” + “F1” keys.</p> <p>* To use a keyboard to link a PC, the following conditions must be met.</p> <ul style="list-style-type: none"> <li>• The PC that you wish to link to is not in sleep mode.</li> <li>• NetDA Manager is running on the PC that you wish to link to.</li> </ul> <p>* If this setting is configured, only the registered PC will be linked. To allow links from other PCs, refer to “5-3. Filtering PCs Whose Screens Are Shared” (page 36).</p>

**6. When the setup is complete, click “Submit”.**

**7. Restart the network function of the monitor.**

Click “OK”.

**8. Finish the Web browser.**

The network configuration is now complete.

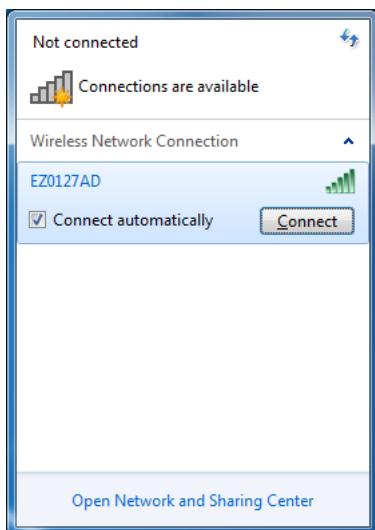
## ● Changing the wireless LAN configuration of your PC

To link to wireless LAN from your PC using the Access Point function of the monitor, change the wireless LAN configuration of the PC.

Using the wireless function which is standard for the operating system, change the wireless LAN configuration of the PC.

**1. Click the network icon (  ) in the task tray.**

**2. Select the SSID configured on the monitor from the list and then click “Connect”.**



**Note**

- By factory default, SSID is set to “EZxxxxxx” (xxxxxx is the last 6 digits of the Ethernet Address).

**3. Enter the WEP Key (the Pre-Shared Key when the network authentication is WPA/WPA2/WPA MIX) configured on the monitor for “Security key”.**



**4. Click “OK”.**

The wireless LAN configuration of the PC is now complete.

**Note**

- By factory default, the network authentication mode is “Open”.

# Chapter 4 Linking/Unlinking

## 4-1. Linking to the Monitor

### Attention

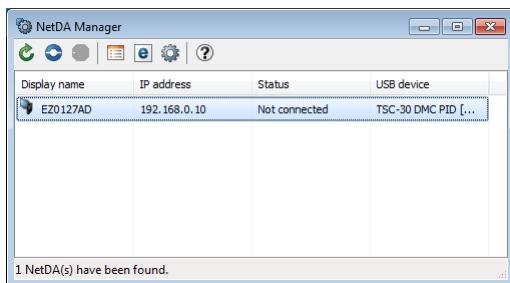
- NetDA Manager and Display Driver must be installed on your PC. To install these applications, refer to “[1-2. Installing the Software](#)” (page 6).

### Note

- In Windows 7, it may take a while to link to the monitor for the first time. For details, refer to “[7. It takes too long to make a link to the monitor from Windows 7.](#)” (page 60).
- The screen image may flicker when linked for the first time.

### ● How to link

#### 1. Select the monitor in the NetDA Manager’s main window.



#### 2. Link to the monitor by one of the following methods:

Double-click	Double-click the monitor in the main window.
Use a button	Select the monitor in the main window and click “Connect” (  ).
Right-click	Right-click on the monitor in the main window and select “Connect” from the menu displayed.
Use a keyboard	Select the monitor using the up/down arrow keys and press “Alt” + “C” on your keyboard.

#### 3. When linked successfully, your PC screen will be shared with the monitor.

### Note

- To configure the monitor to show the same or different contents as your PC, change the Display Driver settings. For details, refer to “[Configuring the monitor settings](#)” (page 29).

## ● Configuring the monitor settings

By using the configuration utility of the Display Driver, the display image and resolution settings can be changed.

### Attention

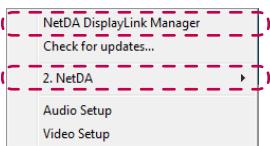
- In this page, Windows 7 is used as an example. For other operating systems, refer to their operation manuals.

### 1. Click the icon ( ) in the task tray.

#### Note

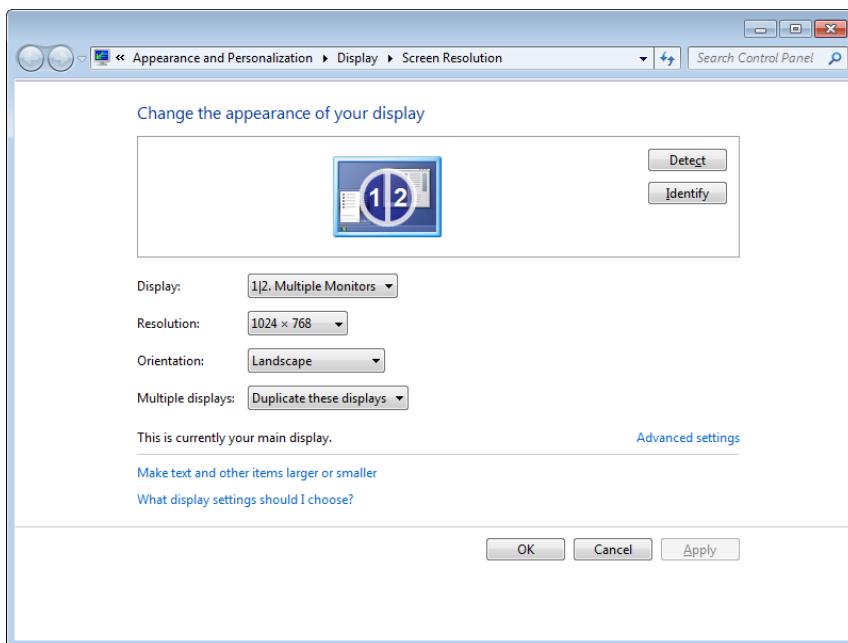
- When linked to the monitor, the icon (  ) is displayed in the task tray.

### 2. Click “NetDA DisplayLink Manager” or the monitor of which configuration is to be changed (“x. NetDA Video”).



### ● When “NetDA DisplayLink Manager” is clicked

When the monitor configuration window appears, configure the following settings.



Display	Sets the monitor of which configuration is to be changed.
Resolution	Sets the resolution for the monitor.
Orientation	Sets the direction (Portrait/Landscape) for the monitor.  * Not supported by FDX1502N/FDX1502NT.
Multiple displays	To show the same image on two or more monitors, select “Duplicate these displays”.  To show different images on two or more monitors, select “Extend these displays”.  To control a remote PC, select “Duplicate these displays”.

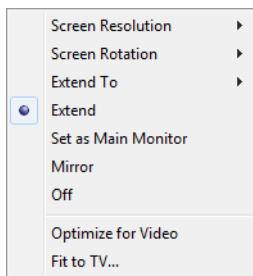
Make this my main display	<p>When this option is checked, the selected monitor will be set as the primary display for showing your desktop.</p> <p>* If it has already been set as the primary display, the message "This is currently your main display." will be displayed.</p>
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**Note**

- If two or more monitors are linked, an option for selecting which to configure will appear.

● **When the monitor ("x. NetDA Video") is clicked**

When the menu appears, configure the following settings.

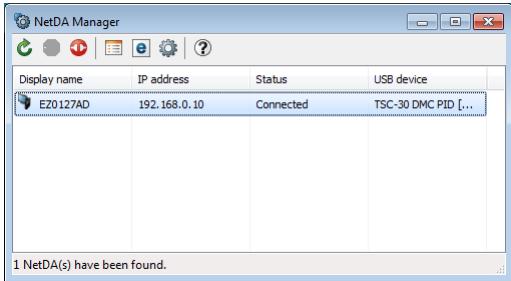


Screen Resolution	Sets the resolution for the monitor.
Screen Rotation	Rotates the monitor screen.  * Not supported by FDX1502N/FDX1502NT.
Extend To	Changes the display position of the selected monitor when showing different images on two or more monitors.
Extend	Set this option to show different images on two or more monitors.
Set as Main Monitor	Sets the selected monitor as the primary display for the desktop.
Mirror	Set this option to show the same image on two or more monitors.
Off	The monitor screen is not displayed.
Optimize for Video	Optimizes video playback.
Fit to TV...	Enlarges/Reduces the Windows desktop according to the monitor.

## 4-2. Unlinking from the Monitor

### ● How to unlink

#### 1. Select the monitor in the NetDA Manager's main window.



#### 2. Unlink from the monitor by one of the following methods:

Double-click	Double-click the monitor in the main window.
Use a button	Select the monitor in the main window and click "Disconnect" (  ).
Right-click	Right-click on the monitor in the main window and select "Disconnect" from the menu displayed.
Use a keyboard	Select the monitor in the main window using the up/down arrow keys and press "Alt" + "D" on your keyboard.

#### 3. The PC screen will disappear from the monitor.

# Chapter 5 Other Function Settings

## 5-1. Sharing Multiple PC Screens with One Monitor, Switching between PCs

### ● Necessary settings to link using a keyboard

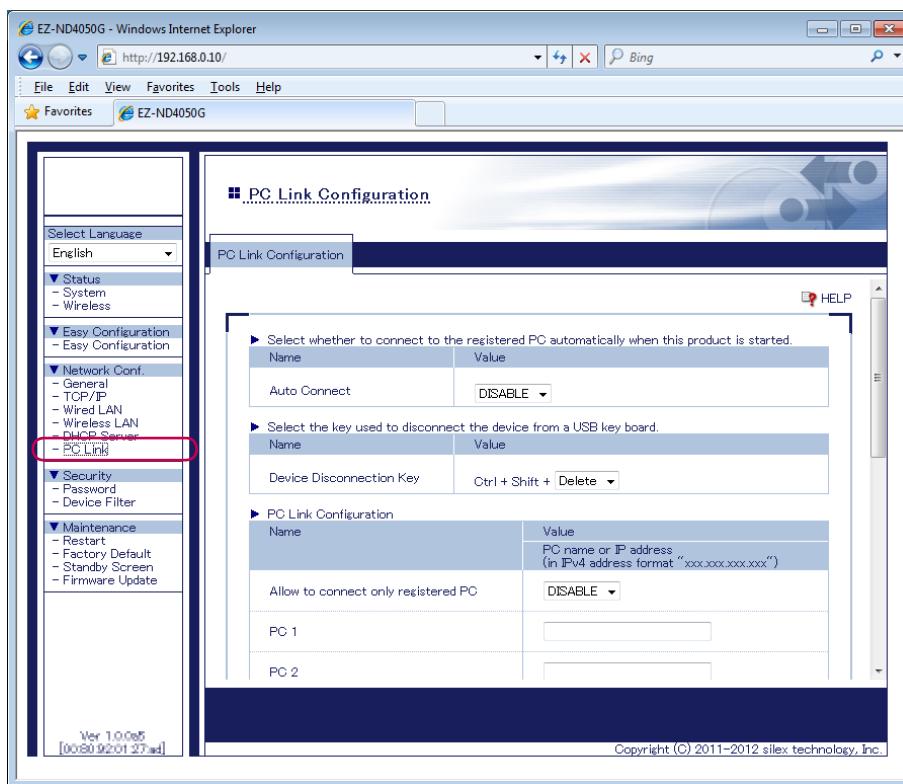
The function allows you to configure the necessary settings to start/stop sharing your PC screen with a display using a USB keyboard connected to the monitor.

#### Attention

- To use a keyboard to link a PC, the following conditions must be met.
  - The PC that you wish to link to is not in sleep mode.
  - NetDA Manager is running on the PC that you wish to link to.

- Select the monitor in the NetDA Manager's main window and display the Web page.
- Click "PC Link" under "Network Conf.".
- At "PC Link Configuration", enter the host name or IP address of the PC for PC 1-12.

Also, at "Device Disconnection Key", select the disconnection key that will be used to unlink from the PC.



- When the setup is complete, click "Submit".

- Restart the network function of the monitor.

Click "OK".

When the function restarts, the new configuration takes effect.

- Finish the Web browser.

## ● Switching between PCs using a keyboard

The function allows you to share multiple PC screens with one monitor, switching between PCs.

### Attention

- To use a keyboard to link a PC, the following conditions must be met.
  - The PC that you wish to link to is not in sleep mode.
  - NetDA Manager is running on the PC that you wish to link to.

### Note

- To share a PC screen using a keyboard, the function keys (“F1” - “F12”) must be associated with the PCs whose screens you wish to share (the PC registered as PC 1 will correspond to function key “F1” on the keyboard). For details, refer to “[Necessary settings to link using a keyboard](#)” ([page 32](#)).
- In Windows 7, it may take a while to link to the monitor for the first time. For details, refer to “[7. It takes too long to make a link to the monitor from Windows 7.](#)” ([page 60](#)).
- The screen image may flicker when linked for the first time.

### Linking to the monitor

#### 1. Press the “Ctrl” + “Shift” + “Function Keys” on the USB keyboard connected to the monitor at the same time.

The corresponding PC screen will be shown on the monitor.

### Note

- The screen image may flicker when linked for the first time.

### Unlinking from the monitor

#### 1. Press the “Ctrl” + “Shift” + “Delete” on the USB keyboard connected to the monitor at the same time.

The PC screen will disappear from the monitor.

### Note

- This key combination can be changed to “Ctrl” + “Shift” + “Insert” from the Web page. To change, access the Web page and go to “Network Conf.”, “PC Link”, and “Device Disconnection Key”.

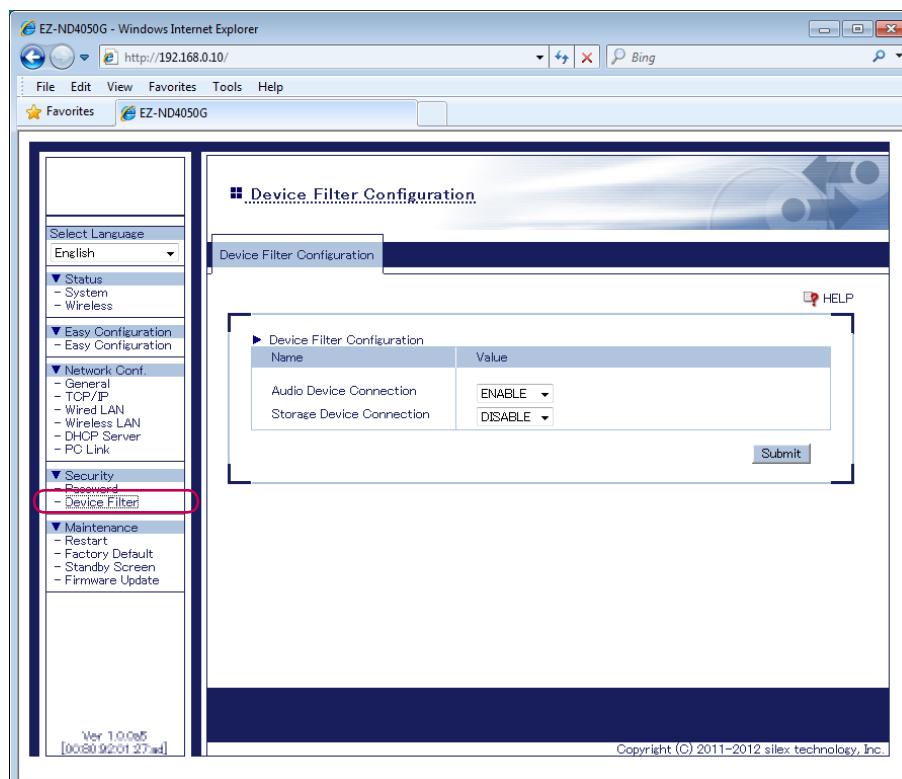
## 5-2. Filtering Monitor Built-in Speaker, Audio Device, and Storage Device Connections

The function allows you to accept/refuse the network connection of speakers built into the monitor, audio devices, and storage devices connected to the monitor.

- 1. Select the monitor in the NetDA Manager's main window and display the Web page.**
- 2. Click "Device Filter" under "Security".**
- 3. Enable/Disable "Audio Device Connection" and/or "Storage Device Connection".**

Select "ENABLE" when you wish to allow the connection of built-in speakers, audio devices, and/or storage devices.

Select "DISABLE" when you wish to deny it.



Name	Details	Defaults
Audio Device Connection	<p>Enable/Disable audio distribution via built-in speakers and a line-out connector and a microphone input connector of the monitor.</p> <p>When set to “ENABLE”, the monitor allows audio output via built-in speakers and a line-out connector and audio input via a microphone input connector.</p> <p>When set to “DISABLE”, the monitor denies audio distribution to the monitor, including audio output via built-in speakers and a line-out connector and audio input via a microphone input connector. (The audio devices will disappear from NetDA Manager.)</p> <p>* If audio distribution is not necessary, select “DISABLE” to allow your PC screen to be output and displayed more smoothly.</p>	DISABLE
Storage Device Connection	<p>Enable/Disable sharing of the USB disks when it is connected to the monitor.</p> <p>When set to “ENABLE”, you can share data stored on the USB disks using NetDA Manager.</p> <p>When set to “DISABLE”, sharing of the USB disks will be disabled.</p>	DISABLE

#### 4. When the setup is complete, click “Submit”.

#### 5. Restart the network function of the monitor.

Click “OK”.

When the function restarts, the new configuration takes effect.

**Attention**

- When the device connection is set to “ENABLE”, your PC need to be linked to the monitor again after the network function restarts.

#### 6. Finish the Web browser.

## 5-3. Filtering PCs Whose Screens Are Shared

The function allows you to link the monitor only with the registered PC. Up to 12 PCs can be registered.

### Note

- If you wish to use the PC filter function to specify the PCs whose screens can or cannot be shared with monitors, it is recommended that you assign an IP address to the PC(s) manually. If a PC is set to get its IP address automatically from the DHCP server, it may obtain an IP address that is filtered when actually it was not meant to be filtered.

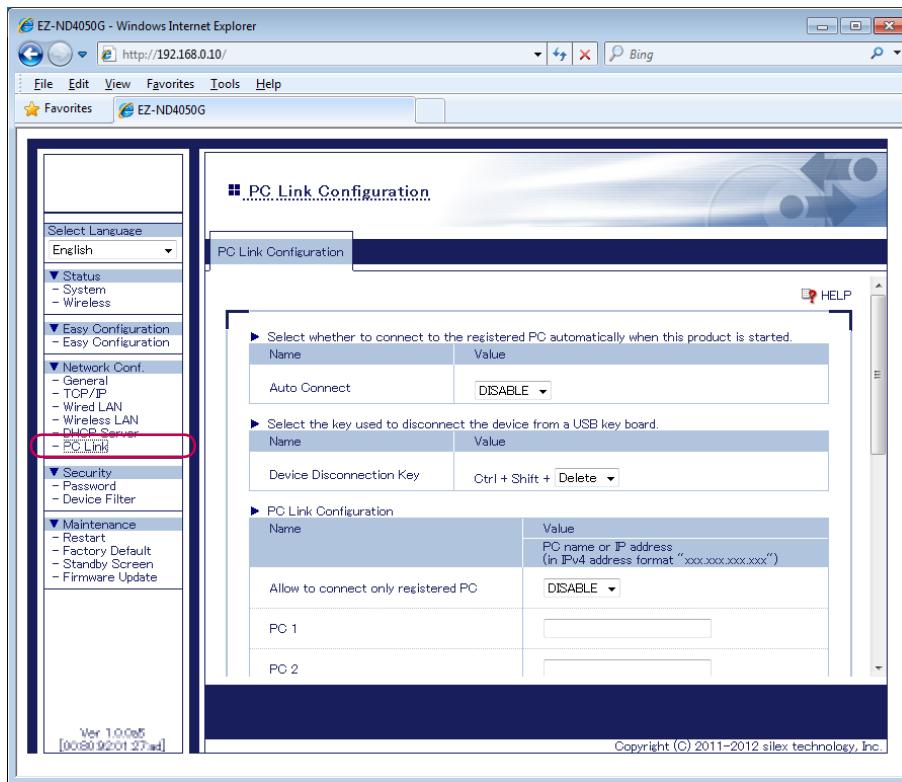
**1. Select the monitor in the NetDA Manager's main window and display the Web page.**

**2. Click "PC Link" under "Network Conf."**

**3. Select "ENABLE" for "Allow to connect only registered PC".**

This allows links only from the PC registered as "PC 1 - 12".

When set to "DISABLE", it allows all links from any PCs.



**4. When the setup is complete, click "Submit".**

**5. Restart the network function of the monitor.**

Click "OK".

When the function restarts, the new configuration takes effect.

**6. Finish the Web browser.**

## 5-4. Configuring the DHCP Server Function

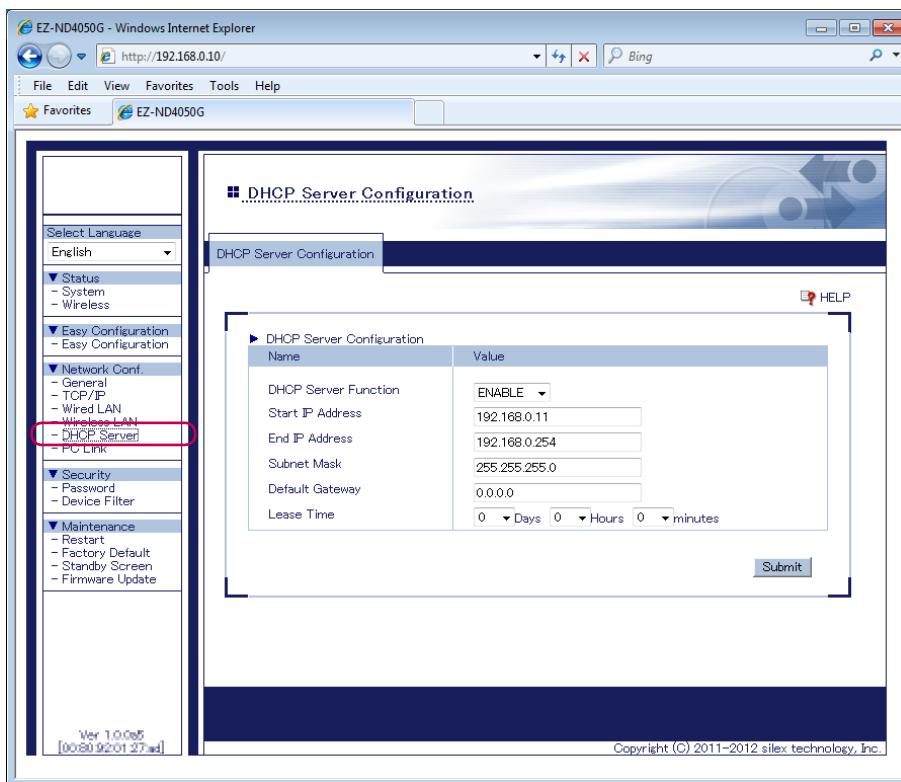
Even if there is no network device with a DHCP server function on your network, you can easily assign an IP address to PCs or network devices by using “DHCP server function” built into the monitor.

Once “ENABLE” is selected for “DHCP Server Function”, the monitor will run as a DHCP server.

### Note

- To assign an IP address to your PC automatically using the DHCP server function of the monitor, your PC must be set to “Obtain an IP address automatically”.

- 1. Select the monitor in the NetDA Manager’s main window and display the Web page.**
- 2. Click “DHCP Server” under “Network Conf.”.**
- 3. Select “ENABLE” for “DHCP Server Function” and enter the settings.**



- 4. When the setup is complete, click “Submit”.**

- 5. Restart the network function of the monitor.**

Click “OK”.

When the function restarts, the new configuration takes effect.

- 6. Finish the Web browser.**

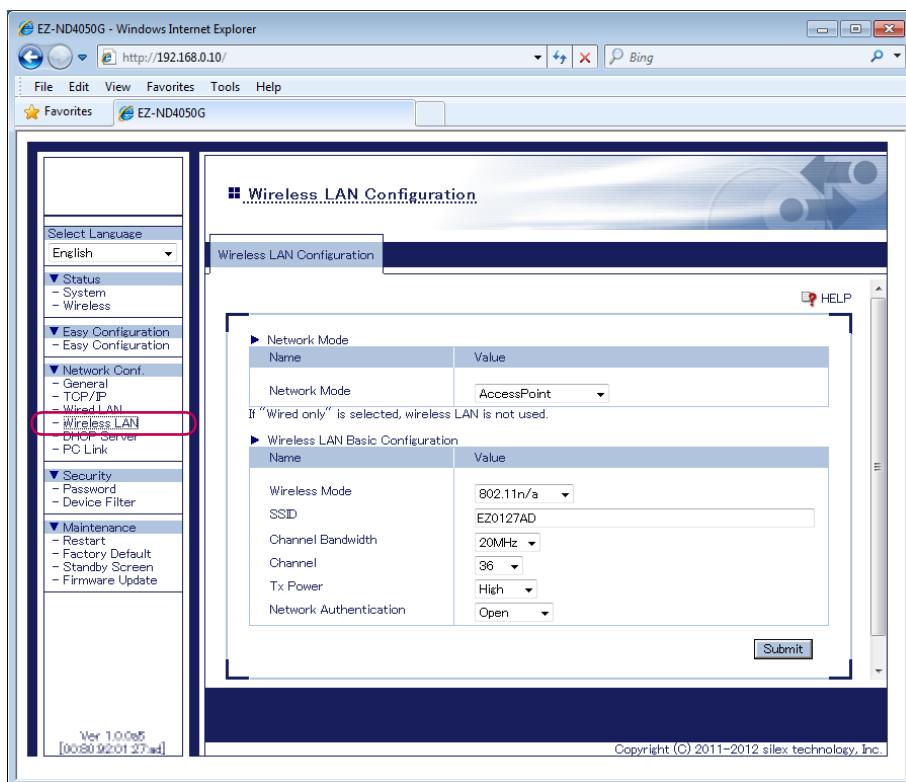
## 5-5. Configuring the Access Point Function

With the Access Point function of the monitor, you can link to the monitor from a PC via wireless or wired LAN.

### Note

- To link to wireless LAN from your PC using the Access Point function of the monitor, the PC must be configured with the same wireless LAN settings as the monitor.

- 1. Select the monitor in the NetDA Manager's main window and display the Web page.**
- 2. Click "Wireless LAN" under "Network Conf."**
- 3. Select "AccessPoint" for "Network Mode" and enter the settings at "Wireless LAN Basic Configuration".**



- 4. When the setup is complete, click "Submit".**

- 5. Restart the network function of the monitor.**

Click "OK".

When the function restarts, the new configuration takes effect.

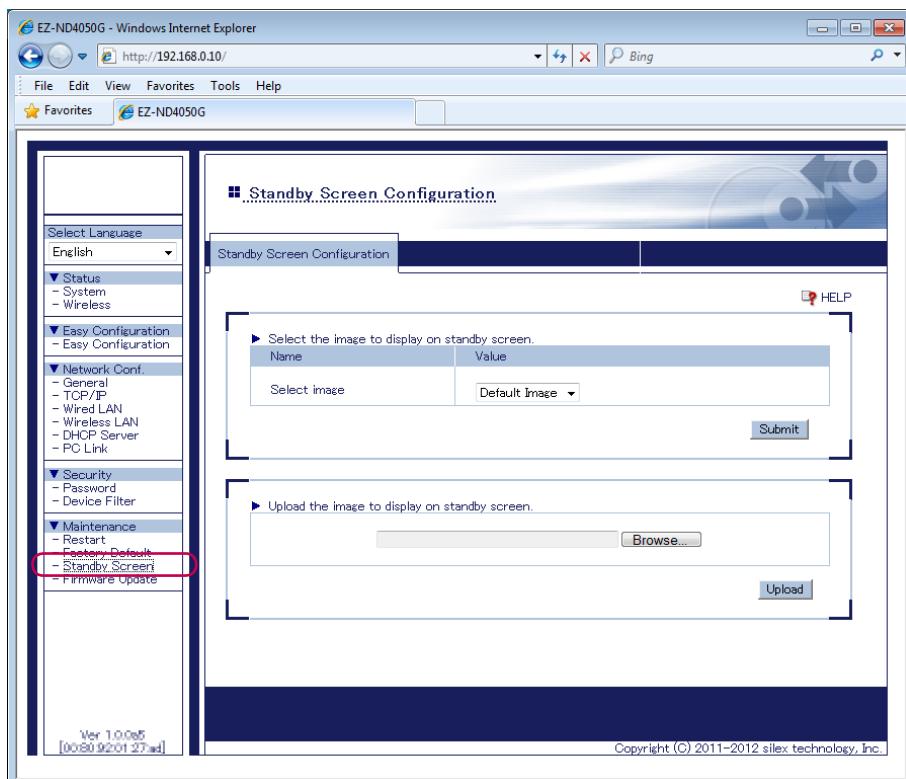
- 6. Finish the Web browser.**

## 5-6. Changing the Standby Screen of the Monitor

The function allows you to change the standby screen when the monitor is not linked to a network.

- 1. Select the monitor in the NetDA Manager's main window and display the Web page.**
- 2. Click "Standby Screen" under "Maintenance".**
- 3. Click "Browse..." to select an image to upload.**

When the selection of an image is complete, click "Upload".



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### Note

- The image must be a PNG file with 800 x 600 pixels.
- If "Blank" is selected for "Select image", the standby screen will not be displayed.
- After "Upload" is clicked, the network function of the monitor will automatically restart and the new settings will take effect.

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- 4. Finish the Web browser.**

## 5-7. Resetting to Factory Defaults

The function allows you to reset the network configuration information of the monitor to the factory default settings.

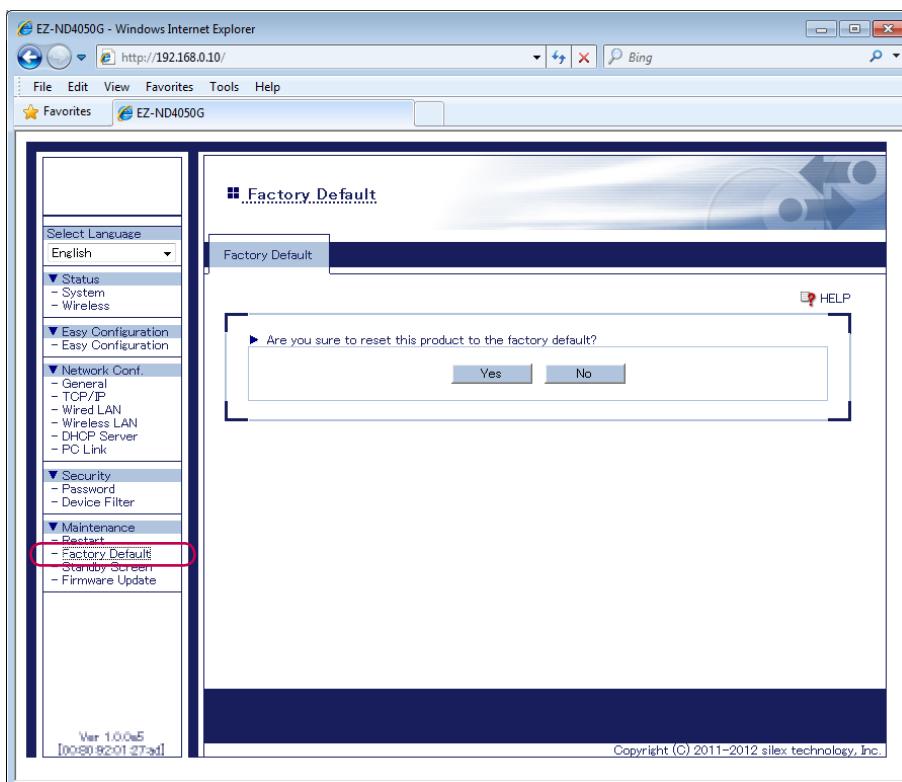
### Attention

- Once the factory default settings are complete, the monitor will run as a DHCP server (“DHCP Server Function”: “ENABLE”). Be careful of it when you are using the monitor with “DISABLE” set for “DHCP Server Function”.
- Before you start, please make sure that no PCs are currently linked.
- Do not turn off the monitor while resetting to factory default.
- While resetting to factory default, the monitor screen disappears momentarily.
- It is recommended to take notes of the current settings. You cannot restore it once the factory default settings are complete.
- If the monitor has been used in a particular network and you wish to change the network configuration to use it for another network, initialize the network configuration of the monitor first according to the instructions below:

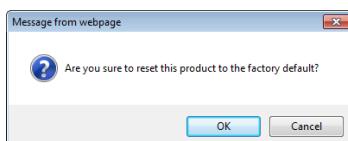
**1. Select the monitor in the NetDA Manager’s main window and display the Web page.**

**2. Click “Factory Default” under “Maintenance”.**

**3. A confirmation message is displayed. Click “Yes”.**



**4. Once again, a confirmation message is displayed. Click “OK”.**



**5. When the CONNECT LED (Green) flashes and LINK LED (Green) lights, the factory default settings are complete.**

**6. Finish the Web browser.**

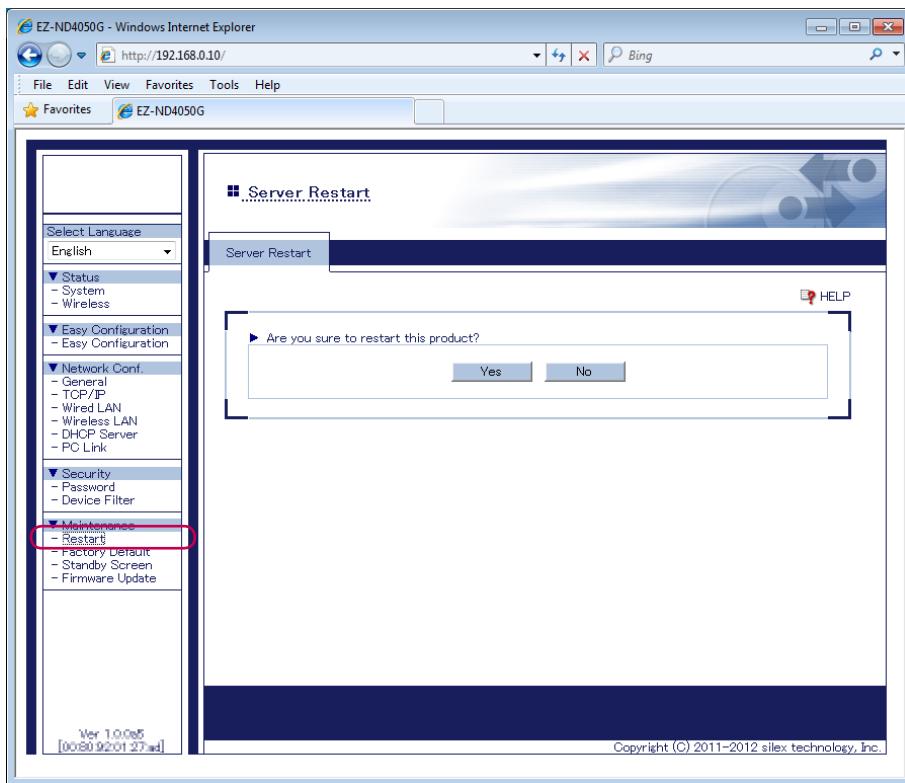
## 5-8. Restarting the Network Function of the Monitor

The function allows you to restart the network function of the monitor.

### Note

- Before you start, please make sure that no PCs are currently linked.

- 1. Select the monitor in the NetDA Manager's main window and display the Web page.**
- 2. Click "Restart" under "Maintenance".**
- 3. A confirmation message is displayed. Click "Yes".**



- 4. The restart will be complete in approx. 30 seconds.**
- 5. Finish the Web browser.**

# Chapter 6 List of All Settings

The configuration items in the Web page are as follows:

## 6-1. Easy Configuration

### ● Easy Configuration

Name	Details	Defaults
General Configuration		
Host Name	Set the host name. The host name (display name) is used for NetDA Manager, etc. Be sure to use a unique name that is not used by other devices.	EZxxxxxx (xxxxxx is the last 6 digits of the Ethernet Address.)
Network Mode	Select the type of network connection. <ul style="list-style-type: none"><li>• AccessPoint Uses the monitor as an Access Point.</li><li>• Wireless only (STA) Links to a wireless LAN via an Access Point.</li><li>• Wired only Links to a wired LAN using a network cable.</li></ul>	AccessPoint
TCP/IP Configuration		
DHCP	Enable/Disable the DHCP protocol.  * To assign an IP address using the DHCP, the DHCP server must be running in your subnetwork.	DISABLE
IP Address	Set the IP address of the monitor. The value must be 4 numbers separated by dots and expressed in the format “xxx.xxx.xxx.xxx”. If the DHCP is enabled on your network, the IP address obtained from it will be applied.	192.168.0.10
Subnet Mask	Set the subnet mask of the monitor. The value must be 4 numbers separated by dots and expressed in the format “xxx.xxx.xxx.xxx”. When set to “0.0.0.0”, a subnet mask appropriate for the IP address is automatically used. If the DHCP is enabled on your network, the Subnet Mask obtained from it will be applied.	255.255.255.0
Default Gateway	Set the gateway address of the monitor. The value must be 4 numbers separated by dots and expressed in the format “xxx.xxx.xxx.xxx”. To use this setting, the gateway must be running in the same subnetwork as the monitor. If “0.0.0.0” is set, this setting is disabled. If the DHCP is enabled on your network, the default gateway obtained from it will be applied.	0.0.0.0

Name	Details	Defaults
<b>DHCP Server Configuration</b>		
DHCP Server Function	Enable/Disable the DHCP server function. Select “ENABLE” to run the monitor as a DHCP server to automatically assign an IP address to the PC. Select “DISABLE” if you already have a DHCP server on the network.	ENABLE
Start IP Address	Set the start IP address. The value must be 4 numbers separated by dots and expressed in the format “xxx.xxx.xxx.xxx”.	192.168.0.11
End IP Address	Set the end IP address. The value must be 4 numbers separated by dots and expressed in the format “xxx.xxx.xxx.xxx”.	192.168.0.254
Subnet Mask	Set the subnet mask. The value must be 4 numbers separated by dots and expressed in the format “xxx.xxx.xxx.xxx”. When set to “0.0.0.0” (default value), a subnet mask appropriate for the IP address is automatically used.	255.255.255.0
Default Gateway	Set the gateway address. The value must be 4 numbers separated by dots and expressed in the format “xxx.xxx.xxx.xxx”. If “0.0.0.0” (default value) is set, this setting is disabled.	0.0.0.0
<b>Wireless LAN Basic Configuration</b>		
SSID	Set the SSID for the wireless LAN to which the monitor will be linked. SSID is an ID that distinguishes a wireless LAN from others. For wireless devices to communicate with each other on a wireless LAN the same SSID must be set. Up to 32 characters (including hyphen “-” and underscore “_”) can be used.	EZxxxxxx (xxxxxx is the last 6 digits of the Ethernet Address.)
Network Authentication	Select the network authentication mode that will be used to link to your wireless router (Access Point). To ensure a secure network, it is recommended to use WPA/WPA2. For IEEE 802.11n, only AES can be used. <ul style="list-style-type: none"> <li>• Open (Open System) Allows all access without authentication. For encryption mode, WEP can be used.</li> <li>• Shared (Pre-Shared Key) Uses WEP key for encryption and allows access only from those with the same WEP key. For encryption mode, WEP can be used.</li> <li>• WPA Uses PSK for network authentication. For encryption mode, TKIP/AES/AUTO can be selected. The encryption key will be generated by communicating with your wireless router (Access Point) using a Pre-Shared key. WEP key setting is not used for this mode.</li> <li>• WPA2 Uses PSK for network authentication. For encryption mode, AES/AUTO can be selected. The encryption key will be generated by communicating with your wireless router (Access Point) using a Pre-Shared key. WEP key setting is not used for this mode.</li> <li>• WPA MIX Uses both WPA and WPA2 authentication. This setting can be used only when “AccessPoint” mode is selected as the network mode.</li> </ul>	Open

Name	Details	Defaults
WEP Configuration		
WEP	<p>Enable/Disable the WEP encryption (ON/OFF). If WEP encryption is used, wireless communication will be encrypted using the settings for "WEP Key 1 - 4" and "Key Index".</p> <ul style="list-style-type: none"> <li>• ON Enables WEP encryption.</li> <li>• OFF Disables WEP encryption.</li> </ul> <p>* If encryption is not enabled, data is not encrypted and is sent as is. To ensure higher security, enabling encryption is recommended.</p>	OFF
Key Index	<p>Select the number of the WEP key that you wish to use for encryption (1 - 4).</p> <p>* This setting must be the same as that of your wireless router (Access Point) or other devices you wish to connect to.</p>	1
WEP Key 1 - 4	<p>Set the WEP key for WEP encryption. Up to 4 WEP keys can be set. A WEP key must be entered using hexadecimal or alphanumeric characters. In most cases, alphanumeric characters are used. Enter 5 characters if the key size is 64bit or 13 characters if the key size is 128bit. For Hexadecimal, a value consists of numbers (0 - 9) and English letters (A - F). Enter a 10-digit value if the key size is 64bit or a 26-digit value if the key size is 128bit.</p> <p>* This setting must be the same as that of your wireless router (Access Point) or other devices you wish to connect to.</p>	None

Name	Details	Defaults
WPA/WPA2 Configuration		
Encryption Mode	<p>Select the encryption mode that you wish to use for WPA/WPA2/WPA MIX authentication.</p> <p>Select one of the following:</p> <ul style="list-style-type: none"> <li>• TKIP This encryption mode is only for WPA.</li> <li>• AES This encryption mode is for both WPA/WPA2.</li> <li>• AUTO Automatically switches between TKIP/AES appropriately for your Access Point or other devices.</li> </ul> <p>* Usually, AES is safer than TKIP. To ensure higher security, it is recommended to use AES when you establish a wireless LAN.</p> <p>* This setting must be the same as that of your wireless router (Access Point) or other devices you wish to connect to.</p>	AES
Pre-Shared Key	<p>Set the Pre-Shared Key. This setting is necessary when TKIP/AES is used for encryption mode.</p> <p>The Pre-Shared Key is a keyword used to create the encryption key. It is also referred to as “network key” or “password”.</p> <p>In most case, alphanumeric characters are used (8 - 63 characters).</p> <p>For Hexadecimal, a value consists of numbers (0 - 9) and English letters (A - F).</p> <p>* This setting must be the same as that of your wireless router (Access Point) or other devices you wish to connect to.</p>	EIZO NANAO Corporation
PC Link Configuration		
PC1	<p>Enter either the host name or IP address of the PC that you wish to link to.</p> <p>If a USB keyboard is connected to the monitor, the PC registered as PC 1 will correspond to the “F1” key on the keyboard. The PC can be linked by pressing the “Ctrl” + “Shift” + “F1” keys.</p> <p>* To use a keyboard to link a PC, the following conditions must be met.</p> <ul style="list-style-type: none"> <li>• The PC that you wish to link to is not in sleep mode.</li> <li>• NetDA Manager is running on the PC that you wish to link to.</li> </ul> <p>* If this setting is configured, only the registered PC will be linked. To allow links from other PCs, refer to <a href="#">“5-3. Filtering PCs Whose Screens Are Shared” (page 36)</a>.</p> <p>* To register two or more PCs for linking via a USB keyboard, refer to <a href="#">“PC Link” (page 52)</a>.</p>	None

## 6-2. Network Configuration

### ● General

Name	Details	Defaults
General Configuration		
Host Name	<p>Set the host name.</p> <p>The host name (display name) is used for NetDA Manager, etc. Be sure to use a unique name that is not used by other devices.</p>	EZxxxxxx (xxxxxx is the last 6 digits of the Ethernet Address.)
Network Mode	<p>Select the type of network connection.</p> <ul style="list-style-type: none"><li>• AccessPoint<ul style="list-style-type: none"><li>Uses the monitor as an Access Point.</li></ul></li><li>• Wireless only (STA)<ul style="list-style-type: none"><li>Links to a wireless LAN via an Access Point.</li></ul></li><li>• Wired only<ul style="list-style-type: none"><li>Links to a wired LAN using a network cable.</li></ul></li></ul>	AccessPoint

### ● TCP/IP

Name	Details	Defaults
TCP/IP Configuration		
DHCP	<p>Enable/Disable the DHCP protocol.</p> <p>* To assign an IP address using the DHCP, the DHCP server must be running in your subnetwork.</p>	DISABLE
IP Address	<p>Set the IP address of the monitor.</p> <p>The value must be 4 numbers separated by dots and expressed in the format “xxx.xxx.xxx.xxx”. If the DHCP is enabled on your network, the IP address obtained from it will be applied.</p>	192.168.0.10
Subnet Mask	<p>Set the subnet mask of the monitor.</p> <p>The value must be 4 numbers separated by dots and expressed in the format “xxx.xxx.xxx.xxx”. When set to “0.0.0.0”, a subnet mask appropriate for the IP address is automatically used. If the DHCP is enabled on your network, the Subnet Mask obtained from it will be applied.</p>	255.255.255.0
Default Gateway	<p>Set the gateway address of the monitor.</p> <p>The value must be 4 numbers separated by dots and expressed in the format “xxx.xxx.xxx.xxx”. To use this setting, the gateway must be running in the same subnetwork as the monitor. If “0.0.0.0” is set, this setting is disabled. If the DHCP is enabled on your network, the default gateway obtained from it will be applied.</p>	0.0.0.0

## ● Wired LAN

Name	Details	Defaults
Wired LAN Configuration		
LAN Interface	Configure the physical network type (AUTO/10 HALF/10 FULL/100 HALF/100 FULL/1000 FULL). Usually, "AUTO" is used. If a LED on your HUB does not light on when the monitor is turned on, change the network type to that of the HUB.	AUTO
Jumbo Frame	Enable/Disable Jumbo Frame (ON/OFF). If enabled, high speed data transmission up to 9696 bytes per frame (excluding FCS 4 bytes) can be utilized for TCP/IP communication. Disable this setting if using the monitor on a 10/100Mbps network.	OFF

## ● Wireless LAN

Name	Details	Defaults
Network Mode		
Network Mode	Select the type of network connection. <ul style="list-style-type: none"> <li>• AccessPoint Uses the monitor as an Access Point.</li> <li>• Wireless only (STA) Links to a wireless LAN via an Access Point.</li> <li>• Wired only Links to a wired LAN using a network cable.</li> </ul>	AccessPoint
Wireless LAN Basic Configuration		
Wireless Mode	Select the IEEE 802.11 wireless mode. <ul style="list-style-type: none"> <li>• 802.11 b/g Uses IEEE802.11b or IEEE802.11g.</li> <li>• 802.11 a Uses IEEE802.11a.</li> <li>• 802.11 n/b/g Uses IEEE802.11n, IEEE802.11b, or IEEE802.11g.</li> <li>• 802.11n/a Uses IEEE802.11n or IEEE802.11a.</li> </ul>	802.11n/a
SSID	Set the SSID for the wireless LAN to which the monitor will be linked. SSID is an ID that distinguishes a wireless LAN from others. For wireless devices to communicate with each other on a wireless LAN the same SSID must be set. Up to 32 characters (including hyphen “-” and underscore “_”) can be used.	EZxxxxxx (xxxxxx is the last 6 digits of the Ethernet Address.)

Name	Details	Defaults
Channel Bandwidth	<p>Set the frequency bandwidth.</p> <p>This setting is necessary when using 802.11n/b/g or 802.11n/a.</p> <p>In a wireless LAN, bandwidth is divided up so that more devices can communicate at a time.</p> <p>Each section of bandwidth is called a “channel” and each channel has a bandwidth of “20MHz”.</p> <p>If “40MHz” is selected, larger and faster data transmission can be realized.</p> <ul style="list-style-type: none"> <li>• 40MHz (High speed) Uses double bandwidth. Two neighboring bandwidths are combined together for high speed transmission.</li> <li>• 20MHz (Standard) Uses standard (single) bandwidth. When using 40MHz (High speed), a large bandwidth is used at a time. If your network becomes unstable when using 40MHz, change it to 20MHz (Standard).</li> </ul>	40MHz
Channel	<p>Set the wireless channel.</p> <p>This setting is necessary when “AccessPoint” mode is selected as the network mode.</p> <p>A channel is the divided frequency bandwidth. In a wireless LAN, bandwidth is divided up so that more devices can communicate at a time.</p> <p>If your network becomes unstable due to interference with other wireless devices, it could be improved by changing the channel.</p> <p>* Channels vary depending on the country where the monitor is used. * If W53 or W56 channels are used when the monitor is turned on or a particular radar is detected, wireless communication will be lost for 1 minute.</p>	36
Tx Power	<p>Set the transmission strength level.</p> <p>This setting is necessary when “AccessPoint” mode is selected as the network mode.</p> <p>When a lower strength level is selected, the radio transmission distance is shortened and the scope of search for the monitor will be narrowed down.</p> <p>By narrowing down the scope of search, you can make it harder for the monitor to be detected from neighboring buildings or outside.</p> <ul style="list-style-type: none"> <li>• High Maximum transmission strength. In most cases, this setting is used.</li> <li>• Middle Transmission strength lower than “High”. Select this setting when you wish to narrow down the scope of search for the monitor.</li> <li>• Low Transmission strength lower than “Middle”. Select this setting when you wish to narrow down the scope of search for the monitor.</li> </ul>	High

Name	Details	Defaults
Network Authentication	<p>Select the network authentication mode that will be used to link to your wireless router (Access Point). To ensure a secure network, it is recommended to use WPA/WPA2. For IEEE 802.11n, only AES can be used.</p> <ul style="list-style-type: none"> <li>• Open (Open System) Allows all access without authentication. For encryption mode, WEP can be used.</li> <li>• Shared (Pre-Shared Key) Uses WEP key for encryption and allows access only from those with the same WEP key. For encryption mode, WEP can be used.</li> <li>• WPA Uses PSK for network authentication. For encryption mode, TKIP/AES/AUTO can be selected. The encryption key will be generated by communicating with your wireless router (Access Point) using a Pre-Shared key. WEP key setting is not used for this mode.</li> <li>• WPA2 Uses PSK for network authentication. For encryption mode, AES/AUTO can be selected. The encryption key will be generated by communicating with your wireless router (Access Point) using a Pre-Shared key. WEP key setting is not used for this mode.</li> <li>• WPA MIX Uses both WPA and WPA2 authentication. This setting can be used only when "AccessPoint" mode is selected as the network mode.</li> </ul>	Open
<b>WEP Configuration</b>		
WEP	<p>Enable/Disable the WEP encryption (ON/OFF). If WEP encryption is used, wireless communication will be encrypted using the settings for "WEP Key 1 - 4" and "Key Index".</p> <ul style="list-style-type: none"> <li>• ON Enables WEP encryption.</li> <li>• OFF Disables WEP encryption.</li> </ul> <p>* If encryption is not enabled, data is not encrypted and is sent as is. To ensure higher security, enabling encryption is recommended.</p>	OFF
Key Index	<p>Select the number of the WEP key that you wish to use for encryption (1 - 4).</p> <p>* This setting must be the same as that of your wireless router (Access Point) or other devices you wish to connect to.</p>	1

Name	Details	Defaults
WEP Key 1 - 4	<p>Set the WEP key for WEP encryption.</p> <p>Up to 4 WEP keys can be set.</p> <p>A WEP key must be entered using hexadecimal or alphanumeric characters.</p> <p>In most cases, alphanumeric characters are used.</p> <p>Enter 5 characters if the key size is 64bit or 13 characters if the key size is 128bit.</p> <p>For Hexadecimal, a value consists of numbers (0 - 9) and English letters (A-F). Enter a 10-digit value if the key size is 64bit or a 26-digit value if the key size is 128bit.</p> <p>* This setting must be the same as that of your wireless router (Access Point) or other devices you wish to connect to.</p>	None
<b>WPA/WPA2 Configuration</b>		
Encryption Mode	<p>Select the encryption mode that you wish to use for WPA/WPA2/WPA MIX authentication.</p> <p>Select one of the following:</p> <ul style="list-style-type: none"> <li>• TKIP This encryption mode is only for WPA.</li> <li>• AES This encryption mode is for both WPA/WPA2.</li> <li>• AUTO Automatically switches between TKIP/AES appropriately for your Access Point or other devices.</li> </ul> <p>* Usually, AES is safer than TKIP. To ensure higher security, it is recommended to use AES when you establish a wireless LAN.</p> <p>* This setting must be the same as that of your wireless router (Access Point) or other devices you wish to connect to.</p>	AES
Pre-Shared Key	<p>Set the Pre-Shared Key. This setting is necessary when TKIP/AES is used for encryption mode.</p> <p>The Pre-Shared Key is a keyword used to create the encryption key. It is also referred to as “network key” or “password”.</p> <p>In most case, alphanumeric characters are used (8 - 63 characters).</p> <p>For Hexadecimal, a value consists of numbers (0 - 9) and English letters (A-F).</p> <p>* This setting must be the same as that of your wireless router (Access Point) or other devices you wish to connect to.</p>	EIZO NANAO Corporation

## ● DHCP Server

Name	Details	Defaults
DHCP Server Configuration		
DHCP Server Function	Enable/Disable the DHCP server function. Select “ENABLE” to run the monitor as a DHCP server to automatically assign an IP address to the PC. Select “DISABLE” if you already have a DHCP server on the network.	ENABLE
Start IP Address	Set the start IP address. The value must be 4 numbers separated by dots and expressed in the format “xxx.xxx.xxx.xxx”.	192.168.0.11
End IP Address	Set the end IP address. The value must be 4 numbers separated by dots and expressed in the format “xxx.xxx.xxx.xxx”.	192.168.0.254
Subnet Mask	Set the subnet mask. The value must be 4 numbers separated by dots and expressed in the format “xxx.xxx.xxx.xxx”. When set to “0.0.0.0” (default value), a subnet mask appropriate for the IP address is automatically used.	255.255.255.0
Default Gateway	Set the gateway address. The value must be 4 numbers separated by dots and expressed in the format “xxx.xxx.xxx.xxx”. If “0.0.0.0” (default value) is set, this setting is disabled.	0.0.0.0
Lease Time	Set the lease time. If it is all set to “0” (e.g. “0 Days+0 Hours+0 minutes”), the lease time will be 10 days.	0 Days+0 Hours+0 minutes

## ● PC Link

Name	Details	Defaults
<b>Auto Connect</b>		
Auto Connect	Enable/Disable the auto link as a startup action. If “ENABLE” is selected; when the monitor is turned on, it will try to link to the PC registered as PC1.	DISABLE
<b>Device Disconnection Key</b>		
Device Disconnection Key	Set the disconnection key to unlink from a device (PC) using a USB keyboard. Delete: Device disconnection key is set to “Ctrl” + “Shift” + “Delete”. Insert: Device disconnection key is set to “Ctrl” + “Shift” + “Insert”.	Delete
<b>PC Link Configuration</b>		
Allow to connect only registered PC	Select “ENABLE” to allow access only from the PCs registered as PC 1 - 12. If no PCs are registered, this filter function does not work. Select “DISABLE” to allow access from any PCs.	ENABLE
PC 1 - 12	<p>Register the PC to be linked via a USB keyboard connected to the monitor. Enter either the host name or IP address of the PC that you wish to link to.</p> <p>The PCs can be linked via a USB keyboard connected to the monitor. The PCs registered as PC 1 to PC 12 will correspond to the “F1” to “F12” keys on the keyboard. The PCs can be linked by pressing the “Ctrl” + “Shift” + “Functions Key” keys. Also, you can unlink from the PC by pressing the keys selected at “Device Disconnection Key”. Example: If you wish to link to the PC registered as PC 2, press the “Ctrl” + “Shift” + “F2” keys on the USB keyboard.</p> <ul style="list-style-type: none"> <li>* To use a keyboard to link a PC, the following conditions must be met. <ul style="list-style-type: none"> <li>• The PC that you wish to link to is not in sleep mode.</li> <li>• NetDA Manager is running on the PC that you wish to link to.</li> </ul> </li> </ul>	None

## 6-3. Security

### ● Password

Name	Details	Defaults
Password Configuration		
New Password	Set the administrator password (up to 7 ASCII characters). This password is used for authentication when changing settings from the Web page.	None

### ● Device Filter

Name	Details	Defaults
Audio Device Connection	Enable/Disable audio distribution via built-in speakers and a line output connector and a microphone input connector of the monitor. When set to “ENABLE”, the monitor allows audio output via built-in speakers and a line output connector and audio input via a microphone input connector. When set to “DISABLE”, the monitor denies audio distribution to the monitor, including audio output via built-in speakers and a line output connector and audio input via a microphone input connector. (The audio devices will disappear from NetDA Manager.)  * If audio distribution is not necessary, select “DISABLE” to allow your PC screen to be output and displayed more smoothly.	DISABLE
Storage Device Connection	Enable/Disable sharing of the USB disks when it is connected to the monitor. When set to “ENABLE”, you can share data stored on the USB disks using NetDA Manager. When set to “DISABLE”, sharing of the USB disks will be disabled.	DISABLE

## 6-4. Maintenance

### ● Standby Screen

Name	Details	Defaults
Standby Screen Configuration		
Select image	Select the image to use for the standby screen. <ul style="list-style-type: none"><li>• Default Image The default image will be used for the standby screen.</li><li>• Upload Image The uploaded image will be used for the standby screen.</li><li>• Blank The standby screen will be blank.</li></ul>	Default Image

# Chapter 7 Troubleshooting

If a problem still remains after applying the suggested remedies, contact your local dealer.

## 7-1. When Installing the Monitor

Problem	Possible cause and remedy
<b>1. The monitor does not show up in the wireless LAN connection list on Windows.</b>	<ul style="list-style-type: none"><li>• The network mode of the monitor has not been configured correctly.<ul style="list-style-type: none"><li>- Please check that the network mode of the monitor is set to "AccessPoint".</li></ul></li><li>• If you intend to setup the monitor via a wireless LAN, please confirm that the wireless adapter is enabled on your PC.<ul style="list-style-type: none"><li>- Please check that the wireless adapter is enabled on your PC by looking at the Windows network settings or the wireless LAN switch on your PC.</li></ul></li><li>• If you intend to setup the monitor via a wireless LAN, please confirm that the monitor is NOT placed in a location subject to weaker radio wave signals.<ul style="list-style-type: none"><li>- Check the location and surrounding conditions.</li></ul></li></ul>
<b>2. The monitor does not show up in the NetDA Manager's main window.</b>	<ul style="list-style-type: none"><li>• The monitor may have a problem regarding connection, power transmission, or operation.<ul style="list-style-type: none"><li>- Please check the LED status of the monitor. If the LED indicates improper status, replace the AC plug and other cables, and reboot the connected devices.</li></ul></li><li>• The startup of the monitor may not have been completed.<ul style="list-style-type: none"><li>- It takes up to 30 sec for the monitor to get ready after it is turned on. Please wait until the monitor becomes ready and then click "Refresh" ( ) in NetDA Manager.</li></ul></li><li>• The PC running NetDA Manager and the monitor may not be in the same network segment (environment without router).<ul style="list-style-type: none"><li>- During the initial configuration, place the monitor and PC in the same network segment.</li></ul></li><li>• When reconfiguring the monitor that has been used in another network, network configuration not allowing the communication with the PC running NetDA Manager may have been set.<ul style="list-style-type: none"><li>- Please reset the monitor to the factory default settings. For details on how to reset the monitor to the factory default settings, refer to "<a href="#">5-7. Resetting to Factory Defaults</a>" (page 40).</li></ul></li><li>• Security software such as a firewall on your PC may be interrupting communication with the monitor.<ul style="list-style-type: none"><li>- Please abort your security software.</li></ul></li></ul>

Problem	Possible cause and remedy
<p><b>3. An error occurs when accessing the Web page via NetDA Manager.</b></p>	<ul style="list-style-type: none"> <li>• The PC running NetDA Manager and the monitor may not be in the same network segment (environment without router).             <ul style="list-style-type: none"> <li>- During the initial configuration, place the monitor and PC in the same network segment.</li> </ul> </li> <li>• In the environment where there is DHCP server, the DHCP server may have configured the IP address of the different segment to a PC.             <ul style="list-style-type: none"> <li>- Please select “Obtain an IP address automatically” at Internet Protocol (TCP/IP) Properties of the PC. Otherwise connect the PC and the monitor with a crossover cable and see how it works.</li> </ul> </li> <li>• When reconfiguring the monitor that has been used in another network, network configuration not allowing the communication with the PC running NetDA Manager may have been set.             <ul style="list-style-type: none"> <li>- Please reset the monitor to the factory default settings. For details on how to reset the monitor to the factory default settings, refer to <a href="#">“5-7. Resetting to Factory Defaults” (page 40)</a>.</li> </ul> </li> <li>• If your Web browser is configured to use a proxy server, access to the local network might be blocked.             <ul style="list-style-type: none"> <li>- Disable use of the proxy server temporarily or enable access to the local network on your Web browser. Example: If using Internet Explorer 8                     <ol style="list-style-type: none"> <li>1. Click “Tools” – “Internet Option”.</li> <li>2. On the “Internet Option” window, click the “Connections” tab.</li> <li>3. Click “LAN Settings”. In the window displayed, confirm if “Use a proxy server for your LAN” is checked.</li> <li>4. If it is checked, clear the check temporarily or check “Bypass proxy server for local addresses”.</li> </ol> </li> </ul> </li> </ul> <p>For details on other Web browsers, see the operation manual of that browser.</p>

Problem	Possible cause and remedy
<b>4. How should I determine the way to assign an IP address to the monitor?</b>	<ul style="list-style-type: none"> <li>• There are two ways to assign an IP address to the monitor; one is to “Get IP address automatically from DHCP server” and the other is to “Assign IP address manually”. Choose the way to assign an IP address according to your environment.             <ul style="list-style-type: none"> <li>- When there is a DHCP server in the network environment You can use “Get IP address automatically from DHCP server”. Select “ENABLE” at “TCP/IP Configuration” – “DHCP” and “DISABLE” at “DHCP Server Function”.</li> <li>- When there is no DHCP server in the network environment, or when you do not prefer getting an IP address from DHCP server Please use “DHCP Server” function of the monitor or “Assign IP address manually”.</li> </ul> </li> <li>• When the DHCP Server function of the monitor is used, the IP address of the monitor is automatically set to “192.168.0.1”.</li> <li>• When assigning IP address manually, keep in mind of the following points regarding the IP address to assign to the monitor.             <ul style="list-style-type: none"> <li>- Assign an IP address unique in the network.</li> <li>- Assign an IP address that has the same address class as the PC that will use the monitor. Example: When an IP address of the PC is “192.168.0.xx”, assign an address such as “192.168.0.100” that is not used by other network devices.</li> </ul> </li> </ul>

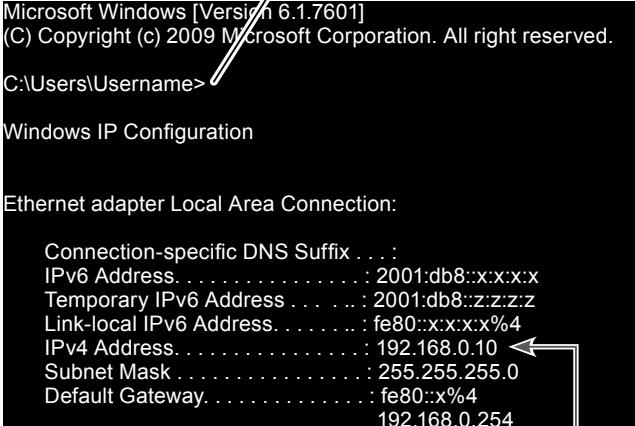
#### Note

- Tips about the IP address
  - An IP address is a unique number for identifying network devices. An IP address is indicated with four numbers divided by a period (.), for example “192.168.0.1”. The integer from 0 - 255 is used for each number.
  - An IP address is, depending on the number assigned, categorized to 3 classes below.
  - Numbers making up the IP address are either “network numbers” indicating network, or “host numbers” indicating each network device; each number indicates the different meaning based on the IP address class. Each class is categorized as the following diagram which is indicating a network number as “n”, and a host number as “u”.
  - An IP address with the same network number must be assigned to the network devices in the same network segment.
  - There is an address range in the IP address called the private address that could be used freely. In the LAN environment not directly connected to the internet, an IP address is assigned within the range of the private address.

First 1 digits in IP address	Class	Definition of IP address <i>n</i> : network number <i>u</i> : host number	Size of the network to be used	Private address
0 to 127	A	n.u.u.u	Large network	10.0.0.0 to 10.255.255.255
128 to 191	B	n.n.u.u	Mid-size network	172.16.0.0 to 172.31.255.255
192 to 223	C	n.n.n.u	Small network	192.168.0.0 to 192.168.255.255

## 7-2. When Using the Monitor

Problem	Possible cause and remedy
1. PC screen cannot be shared with a display using the keyboard.	<ul style="list-style-type: none"><li>• The monitor or the Ethernet Hub to which the monitor is connected may have a problem regarding connection, power transmission, or operation.<ul style="list-style-type: none"><li>- Please check the LED status of the monitor and the Ethernet Hub to which the monitor is connected. If the LED indicates improper status, replace the AC plug and other cables, and reboot the connected devices.</li></ul></li><li>• The startup of the monitor may not have been completed.<ul style="list-style-type: none"><li>- It takes up to 30 sec for the monitor to get ready after it is turned on. Please wait until the monitor becomes ready and then click "Refresh" () in NetDA Manager.</li></ul></li><li>• PC Link settings may not have been configured correctly.<ul style="list-style-type: none"><li>- Please check that the PC Link settings are configured correctly. PC link settings can be configured from the Web page. For details, refer to "<a href="#">"Necessary settings to link using a keyboard" (page 32)</a>.</li></ul></li><li>• The PC may be in sleep mode.<ul style="list-style-type: none"><li>- Please confirm that the PC you want to link to is not in sleep mode. If the PC is in sleep mode, the monitor will not be able to link to it. Change the PC's power settings to prevent it from going into sleep mode.</li></ul></li><li>• Display Driver setting may not be appropriate for the monitor.<ul style="list-style-type: none"><li>- Inappropriate settings beyond the capability of the monitor may have been set to Display Driver on your PC. For the Display Driver settings, refer to "<a href="#">"Configuring the monitor settings" (page 29)</a> and change the settings appropriately.</li></ul></li></ul>

Problem	Possible cause and remedy
<p><b>2. The monitor is not displayed in NetDA Manager.</b></p>	<ul style="list-style-type: none"> <li>• The monitor or the Ethernet Hub to which the monitor is connected may have a problem regarding connection, power transmission, or operation.             <ul style="list-style-type: none"> <li>- Please check the LED status of the monitor and the Ethernet Hub to which the monitor is connected. If the LED indicates improper status, replace the AC plug and other cables, and reboot the connected devices.</li> </ul> </li> <li>• The startup of the monitor may not have been completed.             <ul style="list-style-type: none"> <li>- It takes up to 30 sec for the monitor to get ready after it is turned on. Please wait until the monitor becomes ready and then click "Refresh" (↻) in NetDA Manager.</li> </ul> </li> <li>• Security software such as a firewall on your PC may be interrupting communication with the monitor.             <ul style="list-style-type: none"> <li>- Please add NetDA Manager to the exception list in your security software.</li> </ul> </li> <li>• An IP address unable to communicate with your PC may be assigned to the monitor.             <ul style="list-style-type: none"> <li>- Check the IP address of your PC as follows.                     <ol style="list-style-type: none"> <li>1. Select "Start" – "All Programs" – "Accessories" – "Command Prompt".</li> <li>2. Execute the ipconfig command.</li> </ol> <p>Example of executing the ipconfig command</p> <p style="text-align: center;">Enter "ipconfig" and press the Enter key.</p>  <pre> Microsoft Windows [Version 6.1.7601] (C) Copyright (c) 2009 Microsoft Corporation. All rights reserved.  C:\Users\Username&gt;  Windows IP Configuration  Ethernet adapter Local Area Connection:  Connection-specific DNS Suffix . . . IPv6 Address . . . . . : 2001:db8::x:x:x:x Temporary IPv6 Address . . . . . : 2001:db8::z:z:z:z Link-local IPv6 Address . . . . . : fe80::x:x:x%4 IPv4 Address . . . . . : 192.168.0.10 &lt;--&gt; Subnet Mask . . . . . : 255.255.255.0 Default Gateway . . . . . : fe80::x%4  192.168.0.254 </pre> <p>An IP address of the PC is displayed.</p> <p>Check that the IP address of the PC is a proper address for communicating with the IP address of the monitor.</p> <p>If the PC and the monitor are in the same network segment but use a different network number in their addresses, you need to change either the address of the PC or monitor.</p> <p>If there is a router between the PC and monitor, check that the default gateway address is properly configured.</p> <ul style="list-style-type: none"> <li>- When using the DHCP server function of the monitor, the PC needs to be set to obtain an IP address automatically.</li> </ul> </li> </ul> </li></ul>

Problem	Possible cause and remedy
	<ul style="list-style-type: none"> <li>The IP address assigned to the monitor may be in use by another network device.             <ul style="list-style-type: none"> <li>- Check the IP address assigned to the monitor as follows.                     <ol style="list-style-type: none"> <li>Turn off the monitor on which the IP address is checked.</li> <li>Select “Start” – “All Programs” – “Accessories” – “Command Prompt”.</li> <li>Execute the ping command. Example of executing the ping command when the IP address of the monitor is 192.168.0.20 Enter “ping 192.168.0.20” and press the Enter key.</li> </ol> </li> </ul> </li> </ul> <div style="background-color: black; color: white; padding: 10px;"> <pre>Microsoft Windows [Version 6.1.7601] (C) Copyright (c) 2009 Microsoft Corporation. All right reserved.  C:\Users\Username&gt;  Pinging 192.168.0.20 with 32 bytes of data:  When there is a replay → Reply from 192.168.0.20: bytes=32 time =1ms TTL=128                            Reply from 192.168.0.20: bytes=32 time =9ms TTL=128                            Reply from 192.168.0.20: bytes=32 time &lt;1ms TTL=128                            Reply from 192.168.0.20: bytes=32 time &lt;1ms TTL=128  When there is no replay → Reply from 192.168.0.10 : Destination host unreachable.                            Reply from 192.168.0.10 : Destination host unreachable.                            Reply from 192.168.0.10 : Destination host unreachable.                            Reply from 192.168.0.10 : Destination host unreachable.</pre> </div> <p>If there is a reply while the monitor is turned off, it means there is another network device using the same IP address as the monitor. In such a case, change the IP address of either monitor or the other network device.</p>
<b>3. Animated images are not displayed smoothly on the monitor.</b>	<ul style="list-style-type: none"> <li>There is may be too much load on your network.             <ul style="list-style-type: none"> <li>- If you are playing a video or using software that changes the screen dynamically, set a lower resolution level.</li> </ul> </li> <li>With a wireless LAN connection, the transmission strength of the electric wave may be weak.             <ul style="list-style-type: none"> <li>- Check the electric wave strength of the monitor. For details on the transmission strength level, refer to “<a href="#">Wireless LAN</a>” (page 47).</li> </ul> </li> <li>Depending on the performance of the PC in use, the problem presented on the left may occur.</li> </ul>
<b>4. The monitor is stretched vertically or horizontally.</b>	<ul style="list-style-type: none"> <li>The resolution setting configured for Display Driver is not appropriate for the monitor.             <ul style="list-style-type: none"> <li>- Please check that the same resolution as the monitor is configured for Display Driver on your PC. For the Display Driver settings, refer to “<a href="#">Configuring the monitor settings</a>” (page 29).</li> </ul> </li> <li>The aspect ratio between your PC monitor and the monitor may be different.             <ul style="list-style-type: none"> <li>- Please check that the same aspect ratio as the PC monitor is configured for Display Driver on your PC. For the Display Driver settings, refer to “<a href="#">Configuring the monitor settings</a>” (page 29).</li> </ul> </li> </ul>

Problem	Possible cause and remedy
<b>5. Audio is not output.</b>	<ul style="list-style-type: none"> <li>• Audio may be muted on your PC.           <ul style="list-style-type: none"> <li>- Please check that the sound is not muted on your PC, audio device or speaker.</li> </ul> </li> <li>• The device connection (device filter) setting of the monitor may have been set to “DISABLE”.           <ul style="list-style-type: none"> <li>- If the device connection setting is set to “DISABLE”, it is impossible to communicate with the monitor built-in speakers and audio devices. For how to check the device connection setting, refer to “5-2. Filtering Monitor Built-in Speaker, Audio Device, and Storage Device Connections” (page 34).</li> </ul> </li> <li>• The audio interface of the monitor may not be recognized by your operating system.           <ul style="list-style-type: none"> <li>- Click “Start” – “Control Panel” – “Sounds, Speech, and Audio Devices” – “Sounds and Audio Devices”. In the “Sounds and Audio Devices Properties” window, click the “Voice” tab and check that “USB Audio CODEC” is selected as a default device at “Voice playback”.</li> </ul> </li> <li>• External speaker may not be connected properly.           <ul style="list-style-type: none"> <li>- Check the cable connection between the speaker and monitor.</li> </ul> </li> </ul>
<b>6. Audio is choppy.</b>	<ul style="list-style-type: none"> <li>• There is may be too much load on your network.           <ul style="list-style-type: none"> <li>- If you are playing a video or using software that changes the screen dynamically, set a lower resolution level.</li> </ul> </li> </ul>
<b>7. It takes too long to make a link to the monitor from Windows 7.</b>	<ul style="list-style-type: none"> <li>• The driver software for your monitor may be installed from Windows Update.           <ul style="list-style-type: none"> <li>- To shorten the time to link to the monitor from Windows 7, follow the procedure below:               <ol style="list-style-type: none"> <li>1. Right-click “Computer” and click “Properties” from the menu displayed.</li> <li>2. Click “Advanced system settings”.</li> <li>3. In the “System Properties” window, select the “Hardware” tab and click “Device Installation Settings”.</li> <li>4. In the “Device Installation Settings” window, select “No, let me choose what to do” and “Never install driver software from Windows Update” and then click “Save Changes”.</li> <li>5. In the “System Properties” window, click “OK”.</li> </ol> </li> <li>* It is recommended that you reset the device installation setting to “Yes, do this automatically (recommended)” after the monitor is successfully linked.</li> </ul> </li> </ul>
<b>8. The monitor can be linked via a wired LAN but not via a wireless LAN.</b>	<ul style="list-style-type: none"> <li>• The monitor may be running in a wired LAN mode.           <ul style="list-style-type: none"> <li>- If the network mode of the monitor is set to “Wired only”, the monitor will run in a wired LAN mode. Please check that a proper network mode is selected.</li> </ul> </li> <li>• The wireless settings configured for the monitor may not be appropriate for your environment.           <ul style="list-style-type: none"> <li>- Connect a network cable to the monitor and check the wireless settings of the monitor via a wired LAN.</li> </ul> </li> </ul>
<b>9. A wireless connection is interrupted or disconnected.</b>	<ul style="list-style-type: none"> <li>• The monitor may be placed in a location subject to weaker radio wave signals.           <ul style="list-style-type: none"> <li>- Check the location and surrounding conditions.</li> </ul> </li> </ul>

# Chapter 8 Appendix

## 8-1. Glossary

### Access Point

Access points are devices to be installed so that links to other networks such as wireless LAN devices and/or wired LAN are possible.

### Broadcast Address

The broadcast address is an address which allows a data transmission to all devices over the same network.

### Default Gateway

The default gateway is a device such as a PC or router which functions as a gateway when communicating with other network over its own network.

### DHCP (Dynamic Host Configuration Protocol)

The DHCP is used to automatically assign necessary information such as an IP address to a PC which will be connected temporarily to a network. In the DHCP, PCs and network devices with the function presenting the configuration information are referred to as DHCP servers. (This product is configured to start as a DHCP server by default.)

### Ethernet Address

An Ethernet address is a 48bit identification number assigned to a network device. It is assigned statically, not duplicated, and uses a unique number for each network device. It is also referred to as MAC address (Media Access Control address).

### IEEE802.11

One of the wireless LAN standards provided by the IEEE (Institute of Electrical and Electronic Engineers):  
This product complies with the following 4 standards.

Standards	Frequency band	Transmission speeds (Max.)
IEEE 802.11a	5GHz band	54Mbps
IEEE 802.11b	2.4GHz band	11Mbps
IEEE 802.11g	2.4GHz band	54Mbps
IEEE 802.11n	2.4GHz band/5GHz band	300Mbps

### IP (Internet Protocol) Address

An IP address is an identification number assigned to each PC or communication device linked to the network where a TCP/IP such as the Internet or an intranet is used. In the current Internet protocol (IPv4), a 32bit numeric value divided into 4 8bit packets is used; the IP address consists of 4 groups of decimal numbers (0 to 255) separated by dots and expressed in the format 192.168.0.10, for example. In the next generation (IPv6), the address will be controlled with 128bit information.

(This product supports only IPv4.)

## **Jumbo Frame**

Using jumbo frames, the size of transmitted and received data units (frame) over a network can be increased to ensure effective communication. In the Ethernet standard, the amount of transmittable data per frame is defined as 1518 bytes. When using a jumbo frame, the size is increased to approx. 9 Kbytes or more. (For this product, the maximum is 9696 bytes.)

## **MAC (Media Access Control) Address**

See "Ethernet Address".

## **Security Key**

The security key is a key which allows the safe transmission of encrypted data over a wireless LAN. It allows a communication to be established only between wireless LAN devices on which the same key has been registered. The transmission and reception of wireless data can be protected and the devices themselves can be shielded from interception or trapping.

## **SSID (Service Set Identifier)**

The SSID is a name which allows the relevant access point to be identified in a wireless LAN. When multiple access points exist, the access point to be linked can be specified. Any alphanumeric characters can be specified up to a maximum of 32 characters.

## **Subnet Musk**

A subnet mask is a numeric value where the network address part identifying the subnet can be specified in an IP address.

(Subnet: a divided network when controlling a large network by dividing into multiple networks)

## **TCP/IP (Transmission Control Protocol/Internet Protocol)**

The TCP/IP is one of the network protocols for network communication. Using the TCP/IP protocols allows communication in various OSes.

## **TKIP (Temporal Key Integrity Protocol)**

The TKIP is an encryption protocol used in the WPA for wireless LAN encryption. The encryption key is updated automatically at regular intervals. This ensures safer communications.

## **WEP (Wired Equivalent Privacy)**

The WEP is a security system where transmitted data are encrypted over wireless LAN communications. It is used in IEEE802.11b. However, the encrypting performance is extremely weak.

## **WPA (Wi-Fi Protected Access)**

The WPA is a wireless LAN encryption mode standard, released in October, 2002, by a wireless LAN trade association, Wi-Fi Alliance.

The WPA supplements the weakness of the WEP, improving security.

## **WPA2 (Wi-Fi Protected Access 2)**

The WPA2 is a wireless LAN encryption mode standard, released in September, 2004, by a wireless LAN trade association, Wi-Fi Alliance. It is a new version of the WPA previously explained; it supports stronger AES encryption.

(AES (Advanced Encryption Standard): Standard encryption mode established by National Institute of Standards and Technology (NIST))

## **10BASE-T, 100BASE-TX, 1000BASE-T**

One of the Ethernet standards provided by the IEEE: This product complies with the following 3 standards.

<b>Standards</b>	<b>Transmission speeds</b>
IEEE802.3 (10BASE-T)	10Mbps
IEEE802.3u (100BASE-TX)	100Mbps
IEEE802.3ab (1000BASE-T)	1000Mbps



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